

JAMMU AND KASHMIR PUBLIC SERVICE COMMISSION

RESHAM GHAR COLONY, BAKSHI NAGAR, JAMMU - 180001

Website: http://jkpsc.nic.in email: coejkpsc2017@gmail.com Jammu: 0191-2566533

Subject: Written Examinations for filling up of Gazetted Vacancies in various Govt. Medical Colleges in Health and Medical Education Department, 2023- Provisional Answer Key(s).

> Notification No. PSC/Exam/S/2023/72 Dated: 29.10.2023

In pursuance of Rule 10 (c) of the Jammu & Kashmir Public Service Commission (Conduct of Examination) Rules, 2022, as amended upto date, the Provisional Answer Key(s) of Question Paper pertaining to the Written Examinations for post(s) of Assistant Professor (Anatomy), Assistant Professor (ENT), Assistant Professor (Orthopedics), Assistant Professor (Dermatology, Venereology & Leprosy), Assistant Professor (Epidemiologist/Community Medicine), Medical Record Officer (Allied Ancillary Section)(Central Record Section), Assistant Professor (Tuberculosis & Respiratory Diseases), Assistant Professor (Anesthesiology), Casualty Medical Officer, Librarian with a Degree in Library Science (Central Library) and Assistant Professor (Dentistry) in Health and Medical Education Department, held on 29.10.2023, are hereby notified for seeking objections from candidates.

Provisional Answer Key Assistant Professor (Anatomy)

Test Booklet Question No. (Series A)	
Q1	A
QZ	A
Q3	В
Q4	8
Q5	A
Q6	c
Q7	c
Q8	В
Q9	Α
Q10	С
Q11	A

Test Booklet Question No. (Series A)	
Q12	В
Q13	А
Q14	c
Q15	c
Q16	A
Q17	c
Q18	В
Q19	A
Q20	c
Q21	c
Q22	c

Test Booklet Question No. (Series A)	
Q23	Α
Q24	В
Q25	D
Q26	Α
Q27	В
Q28	В
Q29	c
Q30	В
Q31	В
Q32	В
Q33	c



Test Booklet Question No. (Series A)	
Q34	A
Q35	c
Q36	D
Q37	D
Q38	c
Q39	D
Q40	С
Q41	D
Q42	c
Q43	c
Q44	A
Q45	С
Q46	В
Q47	c
Q48	c
Q49	c
Q50	В
Q51	С
Q52	A
Q53	С
Q54	A
Q55	В
Q56	C

Test Booklet Question No. (Series A)	
Q57	С
Q58	А
Q59	D
Q60	В
Q61	Α
Q62	c
Q63	В
Q64	Α
Q65	D
Q66	В
Q67	D
Q68	Α
Q69	A
Q70	D
Q71	А
Q72	D
Q73	c
Q74	c
Q75	c
Q76	В
Q77	c
Q78	A
Q79	A

Test Booklet Question No. (Series A)	
Q80 A	
Q81	D
Q82	D
Q83	А
Q84	D
Q85	D
Q86	В
Q87	В
Q88	c
Q89	D
Q90	c
Q91	В
Q92	D
Q93	В
Q94	c
Q95	D
Q96	В
Q97	c
Q98	В
Q99	В
Q100	D



Provisional Answer Key Assistant Professor (ENT)

Fest Booklet C Serie	
Q1	C
Q2	A
Q3	8
Q4	c
Q5	D
Q6	c
Q7	C
Q8	A
Q9	c
Q10	c
Q11	D
Q12	c
Q13	A
Q14	В
Q15	8
Q16	A
Q17	A
Q18	A
Q19	c
Q20	В
Q21	С
Q22	В
Q23	A
Q24	A
Q25	D
Q26	D
Q27	D
Q28	D
Q29	В
Q30	C
Q31	C
Q32	A:
Q33	D
Q34	C

Test Booklet Question No. (Series A)	
Q35	D
Q36	В
Q37	c
Q38	A
Q39	В
Q40	c
Q41	Α
Q42	Α
Q43	В
Q44	Α
Q45	D
Q46	Α
Q47	D
Q48	D
Q49	c
Q50	D
Q51	А
Q52	c
Q53	В
Q54	В
Q55	В
Q56	В
Q57	D
Q58	A
Q59	В
Q60	В
Q61	D
Q62	С
Q63	С
Q64	A
Q65	c
Q66	Α
Q67	D
Q68	C

Test Booklet Question No. (Series A)		
Q69	В	
Q70	D	
Q71	D	
Q72	В	
Q73	A	
Q74	c	
Q75	c	
Q76	В	
Q77	C	
Q78	c	
Q79	В	
Q80	В	
Q81	В	
Q82	D	
Q83	D	
Q84	В	
Q85	В	
Q86	c	
Q87	Α	
Q88	D	
Q89	В	
Q90	c	
Q91	Α	
Q92	А	
Q93	Α	
Q94	В	
Q95	В	
Q96	D	
Q97	D	
Q98	Α	
Q99	В	
Q100	В	



Provisional Answer Key Assistant Professor (Orthopedics)

Test Booklet Question No (Series A)	
Q1	A
QZ	c
Q3	D
Q4	В
Q5	c
Q6	D
Q7	В
Q8	A
Q9	В
Q10	c
Q11	A
Q12	В
Q13	c
Q14	c
Q15	A
Q16	c
Q17	В
Q18	В
Q19	C
Q20	A
Q21	A
Q22	D
Q23	c
Q24	A
Q25	С
Q26	В
Q27	C
Q28	A
Q29	D
Q30	В
Q31	c
Q32	D
Q33	В
Q34	A

est Booklet C Serie)	
Q35	D
Q36	D
Q37	c
Q38	В
Q39	D
Q40	В
Q41	В
Q42	В
Q43	В
Q44	В
Q45	c
Q46	В
Q47	В
Q48	В
Q49	c
Q50	В
Q51	D
Q52	Α
Q53	A
Q54	c
Q55	c
Q56	C
Q57	В
Q58	D
Q59	D
Q60	D
Q61	В
Q62	A
Q63	c
Q64	c
Q65	c
Q66	D
Q67	В
Q68	c

Test Booklet Question No. (Series A)		
Q69	c	
Q70	В	
Q71	В	
Q72	c	
Q73	D	
Q74	В	
Q75	Α	
Q76	c	
Q77	8	
Q78	А	
Q79	D	
Q80	В	
Q81	c	
Q82	А	
Q83	A	
Q84	D	
Q85	c	
Q86	c	
Q87	В	
Q88	c	
Q89	В	
Q90	A	
Q91	D	
Q92	c	
Q93	D	
Q94	В	
Q95	D	
Q96	D	
Q97	D	
Q98	Α	
Q99	В	
Q100	c	

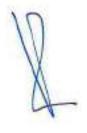


Provisional Answer Key Assistant Professor (Dermatology Venereology & Leprosy)

Test Booklet Question No (Series A)	
Q1	D
Q2	c
Q3	¢
Q4	A
Q5	D
Q6	А
Q7	В
Q8	C
Q9	A
Q10	В
Q11	8
Q12	c
Q13	В
Q14	В
Q15	D
Q16	A
Q17	A
Q18	A
Q19	C
Q20	D
Q21	В
Q22	A
Q23	D
Q24	A
Q25	A
Q26	C
Q27	D
Q28	A
Q29	В
Q30	C
Q31	A
Q32	В
Q33	C
Q34	A

Test Booklet Question No. (Series A)	
Q35	D
Q36	c
Q37	A
Q38	В
Q39	D
Q40	Α
Q41	В
Q42	A
Q43	c
Q44	В
Q45	В
Q46	A
Q47	A
Q48	В
Q49	D
Q50	В
Q51	В
Q52	D
Q53	c
Q54	A
Q55	D
Q56	D
Q57	c
Q58	D
Q59	A
Q60	В
Q61	c
Q62	D
Q63	В
Q64	C
Q65	Α
Q66	C
Q67	A
Q68	В

Test Booklet Question No. (Series A)	
Q69	D
Q70	c
Q71	A
Q72	c
Q73	c
Q74	c
Q75	c
Q76	c
Q77	В
Q78	c
Q79	c
Q80	8
Q81	D
Q82	Α
Q83	В
Q84	Α
Q85	C
Q86	D
Q87	D
Q88	Α
Q89	c
Q90	C
Q91	C
Q92	C
Q93	8
Q94	c
Q95	D
Q96	D
Q97	Α
Q98	D
Q99	Α
Q100	Α



Provisional Answer Key Assistant Professor (Epidemiologist/Community Medicine)

	Test Booklet Question No. (Series A)	
Q1	A	
Q2	c	
Q3	В	
Q4	Ċ	
Q5	A	
Q6	A	
Q7	A	
Q8	c	
Q9	D	
Q10	В	
Q11	В	
Q12	C	
Q13	A	
Q14	В	
Q15	D	
Q16	A	
Q17	c	
Q18	D	
Q19	A	
Q20	A	
Q21	A	
Q22	D	
Q23	В	
Q24	D	
Q25	C	
Q26	C	
Q27	D	
Q28	C	
Q29	D	
Q30	A	
Q31	А	
Q32	A	
Q33	В	
Q34	D	

Test Booklet Question No (Series A)	
Q35	В
Q36	c
Q37	В
Q38	c
Q39	D
Q40	c
Q41	С
Q42	В
Q43	В
Q44	В
Q45	В
Q46	D
Q47	D
Q48	В
Q49	В
Q50	D
Q51	A
Q52	В
Q53	В
Q54	D
Q55	D
Q56	C
Q57	Α
Q58	A
Q59	В
Q60	c
Q61	c
Q62	В
Q63	D
Q64	D
Q65	c
Q66	c
Q67	В
Q68	D

- T	
Q69	В
Q70	8
Q71	D
Q72	А
Q73	В
Q74	D
Q75	В
Q76	c
Q77	В
Q78	Α
Q79	D
Q80	D
Q81	В
Q82	А
Q83	В
Q84	D
Q85	c
Q86	Α
Q87	A
Q88	В
Q89	D
Q90	Α
Q91	D
Q92	В
Q93	c
Q94	A
Q95	А
Q96	С
Q97	D
Q98	A
Q99	c
Q100	С



Provisional Answer Key Medical Record Officer

(Allied Ancillary Section) (Central Record Section)

Test Booklet Question No. (Series A)	
Q1	В
Q2	C
Q3	В
Q4	D
Q5	D
Q6	c
Q7	В
Q8	A
Q9	D
Q10	D
Q11	D
Q12	D
Q13	C
Q14	c
Q15	D
Q16	A
Q17	c
Q18	В
Q19	8
Q20	D
Q21	A
Q22	Α
Q23	Α
Q24	D
Q25	В
Q26	C
Q27	8
Q28	8
Q29	В
Q30	В
Q31	D
Q32	D
Q33	D
Q34	A

Test Booklet Question No (Series A)	
Q35	А
Q36	Α
Q37	В
Q38	c
Q39	Α
Q40	С
Q41	C
Q42	Α
Q43	c
Q44	В
Q45	Α
Q46	С
Q47	c
Q48	D
Q49	c
Q50	А
Q51	В
Q52	c
Q53	А
Q54	Α
Q55	В
Q56	D
Q57	В
Q58	c
Q59	A
Q60	A
Q61	В
Q62	c
Q63	A
Q64	D
Q65	A
Q66	D
Q67	c
Q68	Ç

Q69	В
Q70	8
Q71	8
Q72	8
Q73	В
Q74	c
Q75	A
Q76	A
Q77	A
Q78	c
Q79	c
Q80	В
Q81	D
Q82	c
Q83	В
Q84	В
Q85	В
Q86	В
Q87	В
Q88	c
Q89	В
Q90	В
Q91	С
Q92	В
Q93	В
Q94	D
Q95	A
Q96	D
Q97	Α
Q98	c
Q99	c
Q100	В



Provisional Answer Key Assistant Professor (Tuberculosis & Respiratory Diseases)

Test Booklet Question No (Series A)	
Q1	D
Q2	В
Q3	D
Q4	8
Q5	8
Q6	D
Q7	Α
Q8	В
Q9	D
Q10	A
Q11	D
Q12	D
Q13	В
Q14	D
Q15	В
Q16	C
Q17	A
Q18	D
Q19	A
Q20	A
Q21	A
Q22	D
Q23	В
Q24	D
Q25	С
Q26	C
Q27	D
Q28	D
Q29	В
Q30	c
Q31	A
Q32	D
Q33	А
Q34	С

Test Booklet Question No. (Series A)	
Q35	A
Q36	A
Q37	c
Q38	В
Q39	D
Q40	В
Q41	C
Q42	D
Q43	В
Q44	C
Q45	В
Q46	Α
Q47	D
Q48	c
Q49	c
Q50	В
Q51	C
Q52	В
Q53	D
Q54	c
Q55	D
Q56	D
Q57	C
Q58	A
Q59	c
Q60	A
Q61	c
Q62	Ç
Q63	В
Q64	c
Q65	c
Q66	D
Q67	В
Q68	В

Test Booklet Question No (Series A)	
Q69	Α
Q70	c
Q71	8
Q72	В
Q73	D
Q74	8
Q75	c
Q76	c
Q77	8
Q78	C
Q79	c
Q80	С
Q81	D
Q82	D
Q83	D
Q84	c
Q85	В
Q86	c
Q87	D
Q88	c
Q89	D
Q90	C
Q91	C
Q92	D
Q93	C
Q94	8
Q95	D
Q96	D
Q97	c
Q98	В
Q99	c
Q100	A



Provisional Answer Key Assistant Professor (Anesthesiology)

Test Booklet Question No (Series A)	
Q1	A
Q2	8
Q3	c
Q4	D
Q5	В
Q6	С
Q7	A
Q8	В
Q9	A
Q10	D
Q11	В
Q12	A
Q13	В
Q14	С
Q15	A
Q16	В
Q17	c
Q18	Α
Q19	C
Q20	D
Q21	В
Q22	A
Q23	В
Q24	D
Q25	A
Q26	С
Q27	D
Q28	C
Q29	С
Q30	A
Q31	В
Q32	A
Q33	c
Q34	D

Test Booklet ((Serie	
Q35	В
Q36	A
Q37	В
Q38	В
Q39	c
Q40	A
Q41	С
Q42	A
Q43	D
Q44	A
Q45	c
Q46	A
Q47	В
Q48	c
Q49	В
Q50	A
Q51	c
Q52	В
Q53	D
Q54	В
Q55	A
Q56	c
Q57	D
Q58	C
Q59	В
Q60	D
Q61	A
Q62	8
Q63	C
Q64	D
Q65	c
Q66	A
Q67	C
Q68	В

Test Booklet Question No. (Series A)		
Q69	c	
Q70	0	
Q71	A	
Q72	В	
Q73	c	
Q74	C	
Q75	D	
Q76	A	
Q77	c	
Q78	В	
Q79	c	
Q80	D	
Q81	c	
Q82	А	
Q83	В	
Q84	c	
Q85	D	
Q86	В	
Q87	c	
Q88	A	
Q89	Α	
Q90	c	
Q91	c	
Q92	A	
Q93	В	
Q94	c	
Q95	D	
Q96	c	
Q97	D	
Q98	Α	
Q99	c	
Q100	В	



Provisional Answer Key Casualty Medical Officer

Test Booklet Question No. (Series A)	
Q1	В
Q2	С
Q3	D
Q4	В
Q5	A
Q6	C
Q7	A
Q8	Α
Q9	c
Q10	D
Q11	В
Q12	А
Q13	В
Q14	D
Q15	D
Q16	A
Q17	Α
Q18	D
Q19	A
Q20	c
Q21	D
Q22	D
Q23	A
Q24	В
Q25	D
Q26	С
Q27	D
Q28	С
Q29	В
Q30	D
Q31	Α
Q32	D
Q33	D
Q34	В

Test Booklet Question No. (Series A)	
Q35	Α
Q36	c
Q37	В
Q38	В
Q39	A
Q40	D
Q41	А
Q42	A
Q43	D
Q44	c
Q45	В
Q46	A
Q47	В
Q48	A
Q49	c
Q50	A
Q51	В
Q52	c
Q53	В
Q54	В
Q55	A
Q56	C
Q57	D
Q58	c
Q59	8
Q60	c
Q61	D
Q62	A
Q63	Α
Q64	A
Q65	A
Q66	A
Q67	D
Q68	В

Q69	c
Q70	В
Q71	D
Q72	В
Q73	c
Q74	8
Q75	А
Q76	c
Q77	D
Q78	D
Q79	8
Q80	D
Q81	А
Q82	D
Q83	Α
Q84	D
Q85	В
Q86	А
Q87	A
Q88	8
Q89	D
Q90	В
Q91	A
Q92	В
Q93	c
Q94	В
Q95	В
Q96	A
Q97	Α
Q98	A
Q99	Α
Q100	c



Provisional Answer Key Librarian

(Series A)	
Q1	C
Q2	D
Q3	A
Q4	8
Q5	C
Q6	Α
Q7	c
Q8	c
Q9	c
Q10	c
Q11	c
Q12	D
Q13	A
Q14	В
Q15	В
Q16	В
Q17	A
Q18	D
Q19	c
Q20	В
Q21	В
Q22	c
Q23	c
Q24	В
Q25	В
Q26	В
Q27	C
Q28	c
Q29	A
Q30	c
Q31	D
Q32	A
Q33	D
034	A

Test Booklet Question No. (Series A)	
Q35	A
Q36	D
Q37	В
Q38	8
Q39	С
Q40	D
Q41	Α
Q42	В
Q43	В
Q44	c
Q45	С
Q46	В
Q47	Α
Q48	D
Q49	c
Q50	c
Q51	D
Q52	c
Q53	В
Q54	В
Q55	A
Q56	c
Q57	c
Q58	D
Q59	В
Q60	Α
Q61	Α
Q62	Ċ
Q63	Α
Q64	В
Q65	Α
Q66	В
Q67	D
Q68	D

Q69	c
Q70	С
Q71	D
Q72	В
Q73	С
Q74	A
Q75	Α
Q76	В
Q77	D
Q78	D
Q79	A
Q80	c
Q81	D
Q82	В
Q83	В
Q84	А
Q85	c
Q86	Α
Q87	A
Q88	D
Q89	А
Q90	В
Q91	C
Q92	c
Q93	В
Q94	D
Q95	В
Q96	A
Q97	A
Q98	c
Q99	D



Provisional Answer Key Assistant Professor (Dentistry)

est Booklet Question No. (Series A)	
Q1	В
Q2	c
Q3	A
Q4	D
Q5	c
Q6	C
Q7	С
Q8	8
Q9	A
Q10	c
Q11	c
Q12	D
Q13	В
Q14	A
Q15	8
Q16	В
Q17	A
Q18	А
Q19	A
Q20	Α
Q21	C
Q22	C
Q23	8
Q24	D
Q25	В
Q26	c
Q27	8
Q28	В
Q29	D
Q30	В
Q31	С
Q32	8
Q33	В
Q34	c

Test Booklet Question No. (Series A)	
Q35	A
Q36	c
Q37	A
Q38	D
Q39	c
Q40	В
Q41	c
Q42	В
Q43	c
Q44	c
Q45	В
Q46	A
Q47	С
Q48	А
Q49	В
Q50	D
Q51	c
Q52	А
Q53	A
Q54	Α
Q55	C
Q56	Α
Q57	D
Q58	D
Q59	D
Q60	D
Q61	Α
Q62	А
Q63	8
Q64	D
Q65	c
Q66	А
Q67	А
Q68	D

Test Booklet Question No (Series A)	
Q69	D
Q70	В
Q71	D
Q72	c
Q73	D
Q74	В
Q75	Α
Q76	В
Q77	с
Q78	A
Q79	А
Q80	c
Q81	В
Q82	В
Q83	В
Q84	D
Q85	Α
Q86	В
Q87	Α
Q88	c
Q89	c
Q90	D
Q91	В
Q92	C
Q93	В
Q94	Α
Q95	Α
Q96	D
Q97	Α
Q98	В
Q99	Α
Q100	Α



The candidates are advised to refer to **Question Booklet** (**Series A**) to match the corresponding question(s) in their respective Question Booklet Series and if any candidate feels that the key to any of the question(s) is/are wrong, he/she may represent on prescribed format/proforma annexed as **Annexure-A** along with the documentary proof/evidence (**hard copies only**) and fee of Rs.500/- per question in the form of Demand Draft drawn in favour of **COE**, **J&K PSC** (refundable in case of genuine/correct representation) to the Controller of Examinations, Jammu & Kashmir Public Service Commission, from Monday I.e. 30.10.2023 to 31.10.2023. **The candidates are further advised to clearly mention the question(s) objected to with reference to its serial number as it appears in the Question Booklet of Series A of the provisional answer key(s).**

Further, any objection/application not accompanied by the requisite Demand Draft of Rs.500/- as prescribed, shall not be considered/entertained under any circumstances. Candidates are, in their own interest, advised to adhere to these instructions and not submit any objection unaccompanied by the Demand Draft as required under extant rules.

The Commission shall not entertain any such representation(s) after the expiry of the stipulated period i.e. after 31.10.2023 (Tuesday), 05.00 pm.

The provisional answer key(s) are available on the website of the Commission http://www.jkpsc.nic.in.

(Dr. Varnika Raj), JKAS

Under Secretary J&K, Public Service Commission

Dated: 29.10.2023

No. PSC/Ex-Secy/2023/61

Copy to the: -

 Director, Information and Public Relation, J&K for publication of the notice in all leading newspapers published from Jammu/Srinagar.

P.S. to Hon'ble Chairman, J&K Public Service Commission for information of the Hon'ble Chairman.

P.S. to Hon'ble Member, Shri ______ for information of the Hon'ble Member.

4. P. A. to Secretary, J&K Public Service Commission for information of the Secretary.

P.A. to Controller of Examinations, J&K Public Service Commission.

6. Main file/Stock file/Notice Board.

Annexure-A

Representation regarding objection(s) to any Question/Answer pertaining to the Written Test conducted for the post(s) of Assistant Professor (Anatomy), Assistant Professor (ENT), Assistant Professor (Orthopedics), Assistant Professor (Dermatology, Venereology & Leprosy), Assistant Professor (Epidemiologist/Community Medicine), Medical Record Officer (Allied Ancillary Section)(Central Record Section), Assistant Professor (Tuberculosis & Respiratory Diseases), Assistant Professor (Anesthesiology), Casualty Medical Officer, Librarian with a Degree in Library Science (Central Library) and Assistant Professor (Dentistry), 2023 held on 29.10.2023

(NOTE: USE SEPARATE FORMS FOR SEPARATE QUESTIONS)

Discipline:

Name of the Applicant:

Roll No.:

Correspondence Address:

Contact/Mobile No.:

Date of Application:

Demand Draft No. date:

Candidates Account No.(16 digit) & IFSC Code:

Question No. in Series A	Details of the Objection	Resource Material (copy to be enclosed)	Details of the Website (if any)
Correct Ans	wer/Option as per candidate	i	

Signature of the Candidate

Note: Application for each question/answer shall be made on separate page in the given format, otherwise the first question entered in the format shall only be considered.

A

Page 14 of 14

Booklet Serial No. 210945

Test Booklet Series

TEST BOOKLET ANATOMY

Written Test - 2023



(54)

Time Allowed: Two Hours

Maximum Marks: 100

INSTRUCTIONS

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
- You have to enter your Roll Number on the
 Test Booklet in the Box provided alongside.

 DO NOT write anything else on the Test Booklet.
- 4. This Test booklet contains 100 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
- 6. All items carry equal marks.
- Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer /Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- 9. Sheets for rough work are appended in the Test Booklet at the end.
- While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- 11. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

(54) (A)/2023 [P.T.O.

1.		ne developing embryo, the midgut re actures?	otates 2/0	degrees around which of the following
	A)	Superior mesenteric artery	B)	Celiac trunk
	C)	Splenic artery	D)	Left renal artery
2.	Sub	capsular sinuses are present in:		
	A)	Lymph node	B)	Palatine tonsil
	C)	Spleen	D)	Thymus
3.	Wh	ich one is known as musicians' nerv	e	
	A)	Median	B)	Ulnar
	C)	Radial	D)	Musculocutaneous
4.	Wh	ich one of the following circur tganglionic fibres from the superior	nventricu r cervical į	lar organs is solely innervated by ganglion of the ANS?
	A)	Area postrema		
	B)	Pineal body		
	C)	Organum vasculosum of the lami	na termina	alis
	D)	Subfornical organ		
5.	The	Karyotype of Turner's syndrome is	i	
	A)	45XO	B)	46XX
	C)	47XXX	D)	47XXY
6.	Wh	ich is unlocking muscle of knee		
	A)	Soleus	B)	Biceps femoris
	C)	Popliteus	D)	Gracilis
7.	Ner	ve carrying postganglionic parasyn	npathetic f	fibres of parotid gland is
	A)	Facial nerve	B)	Inferior alveolar nerve
	C)	Auriculotemporal nerve	D)	Buccal nerve

8. Yellow marked plane passes at the level of vertebra



- A) L4
- C) L3

- B) L1
- D) L2
- 9. Among the following statements, true regarding yellow marked structure is



- A) Action is flexion of the knee joint
- B) Supplied by L4, L5 spinal segment
- C) Inserted to greater trochanter
- Vascular supply by inferior epigastric artery.
- 10. A 68-year-old man is scheduled to have coronary bypass surgery done to his left anterior descending artery. As this procedure is performed, which of the following vessels is most at risk of injury?
 - A) Anterior cardiac vein
- B) Middle cardiac vein

C) Great cardiac vein

D) Coronary sinus

11.	Uret	eric bud arises from	16208	
	A)	Mesonephric duct	B)	Paramesonephric duct
	C)	Vesicourethral canal	D)	Urogenital sinus
12.	Aor	tic knuckle, a projection in	the upper part of le	eft margin of the cardiac shadow in PA
	viev	v of chest X-ray is cast by		
	A)	Aortic sinus	B)	Ascending Aorta
	C)	Descending aorta	D)	Arch of Aorta
13.	Roo	t value of sacral plexus is		
	A)	L4,L5,S1, S2,S3	B)	L3,L4,L5,S1,S2
	C)	L5,S1,S2,S3,S4	D)	L2,L3,L5,S1,S2
14.	Mat	ch the following cells wit	h their structure	
	1.	Kupffer cells	i.	Stomach
	2.	Parietal cells	ii.	Bronchiole
	3.	Dust cells	iii.	Liver
	4.	Clara cells	iv.	Lung
	A)	1-ii,2- iv,3-i,4-iii		
	B)	1-iv,2-iii,3-ii,4-i		
	C)	1-iii,2-i,3-iv,4-ii		
	D)	1-iv,2-i,3-ii,4-iii		
15.	The	corpus striatum is referre	ed to as:	
	A)	[1] - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
	B)	Caudate nucleus and glo	bus pallidus	
	C)	Caudate nucleus and len	tiform nucleus	
	D)	Amygdaloid body and le	entiform nucleus	
16.	A li	ne drawn from the anterio	or superior iliac sp	ine to the ischial tuberosity (Nelaton's
), passing over the lateral as ctures?	spect of the hip, nor	nally passes over which of the following
	A)	Sciatic nerve	B)	Ischial spine
	C)	Pudendal nerve	D)	Greater trochanter
17.	The	Y shaped sheet of white m	atter that divides tha	damus into its three main parts (anterior.
	mee	fial, and lateral) is called:		
	A)	Lamina terminalis	B)	Stria medullaris thalami
	C)	Internal medullary lamin	na D)	Lamina cribrosa
18.	Sup	perior oblique muscle is su	ipplied by	nerve
	A)	Oculomotor	B)	Trochlear
	C)	Abducent	D)	Facial

19.	Ger	neral visceral efferent (GVE) comp	onent to the	lacrimal gland is associated with which
		he following nerves	- 22	22 722
	A)	Facial	B)	Nasociliary
	C)	Mandibular	D)	Anterior ethrnoidal
20.	An	example for autosomal dominant	inheritance	is
	A)	Tay sach's disease	B)	Cystic fibrosis
	C)	Achondroplasia	D)	Hemophilia
21.	The	middle meningeal artery enters t	he skull via:	
	A)	Foramen ovale	B)	Foramen lacerum
	C)	Foramen spinosum	. D)	Foramen rotundum
22.	Mig	gration of motor nucleus towards	sensory nuc	leus is known as
	A)	Synapse	B)	Chromotolysis
	C)	Neurobiotaxis	D)	Myelination
23.	Piri	form recess is located in the:		
	A)	Laryngopharynx	B)	Oropharynx
	C)	Nasopharynx	D)	Middle meatus
24.	The	lesser tubercle of the humerus p	rovide inser	tion for
	A)	Supraspinatus	B)	Subscapularis
	C)	Teres minor	D)	Infraspinatus
25.	The	most common site for implantat	ion in ectopi	ic pregnancy is the
	A)	Internal os of the uterus	B)	Mesentery
	C)	Ovary	D)	Oviduct
26.	The	philtrum is derived from the:		
	A)	Inter maxillary segment	B)	Frontonasal process
	C)	Maxillary process	D)	Mandibular process
27.	Wh	at is the origin of the lens?		
	A)	Neural ectoderm	B)	Surface ectoderm
	C)	Mesoderm	D)	Endoderm
28.	The	bulb of the penis is located in the		
	A)	Deep perineal pouch	B)	Superficial perineal pouch
	C)	Ischiorectal fossa	D)	Pudendal canal
29.	The	ovaries are anchored to the latera	al pelvic wal	l by the:
	A)	Ovarian ligament	B)	Broad ligament
	C)	Suspensory ligament	D)	Round ligament

30.	The	axillary nerve innervates which of t		ing muscles?
	A)	Coracobrachialis	B)	Teres minor
	C)	Teres major	D)	Subscapularis
31.	The	testes are covered by a tough fibrou	is coat kn	own as the
	A)	Cremaster fascia		
	B)	Tunica albuginea		
	C)	Tunica dartos		
	D)	Scarpa's fascia		
32.	Wh	ich of the following muscles is part	of the tri	ceps coxae?
	A)	Obturator externus	B)	Gemelli muscles
	C)	Piriformis	D)	Gluteus medius
33,	Cor	pora Amylacea are present in		
	A)	Thyroid gland	B)	Pituitary gland
	C)	Prostate gland	D)	Adrenal gand
34.	Ant	erior intercostal membrane is the co	ontinuatio	on of
	A)	External intercostal muscle	B)	Internal intercostal muscle
	C)	Intercostaslis intimi muscle	D)	Subcostal muscle
35.	14.0350	erson was unable to protrude his ton the following muscle is involved?	gue, whe	n asked by a physician to do so. Which
	A)	Palatoglossus	B)	Geniohyoid
	C)	Genioglossus	D)	Hyoglossus
36.	Hor	ner's syndrome results in all the syn	ptoms E	XCEPT
	A)	Partial ptosis	B)	Miosis
	C)	Anhydrosis	D)	Exopthalmos
37.	Ider	ntify the WRONG statement about n	erves of I	Pharyngeal arches
	A)	1st Arch - mandibular nerve		
	B)	2nd Arch - facial nerve		
	C)	3rd Arch - glossopharyngeal nerve		
	D)	4th Arch - recurrent laryngeal ner	ve	
(54)	(A)		(7)	[P.T.O.

38.	The	paranasal air sinuses that ope	n into the hiatu	s semilunaris are the
	A)	Frontal and posterior ethmo	idal	
	B)	Sphenoidal and middle ethm	oidal	
	C)	Anterior ethmoidal and max	illary	
	D)	Middle and posterior ethmo	idal	
39.	In th	ne below picture the contents	of region mark	ed by black circle are-
	100		300	
	198			
		(-1)		
	100	A PART TO SERVE A PART OF THE	A STATE OF	
	A)	Central vein, hepatic artery a	and bile duct	
	B)	Cystic artery, portal vein and	l bile duct	
	C)	Central vein, cystic artery ar	nd bile duct	
	D)	Hepatic artery, portal vein ar	nd bile duct	
40.	Peri	chondrium is absent in		
	A)	Epiphysial cartilage	B)	Epiglottis
	C)	Intervertebral disc	D)	Auditory tube
41.	The	medial wall of axilla is forme	d by	
	A)	Bicipital groove	B)	Pectoralis major
	C)	Latissimus dorsi	D)	Serratus anterior
42.	A 68	s-vear-old man is scheduled to	have coronary	bypass surgery done to his left anterior
	desc			ed, which of the following vessels is
	A)	Anterior cardiac vein	B)	Middle cardiac vein
	C)	Great cardiac vein	D)	Coronary sinus
(54)	(A)		(8)	

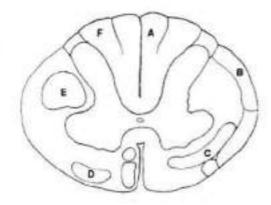
43.	elev expl inju	ated temperature (39° C), is hypoten loratory laparotomy reveals large amou	sive, a ints of	ter 2 days, the patient has developed an and complains of abdominal pain. An blood in the peritoneal cavity due to an ectomy. Which of the following vessels
	A)	Right colic artery	B)	Superior mesenteric artery
	C)	Heocolic artery	D)	Superior rectal artery
44.	Cale	ot's triangle is bounded by all except		
	A)	Cystic artery	B)	Inferior segment of liver
	C)	Cystic duct	D)	Common hepatic duct
45.	The	following structures receive innervation	on from	branches of the pudendal nerve except
	A)	Labia majora.	B)	Urethral sphincter
	C)	The posterior fornix of the vagina	D)	Ischiocavernosus muscles
		ravated by coughing. Physical examinat n on palpation at right lower quadrant (I Pancrease		eals a low-grade fever (38°C; 100.5°F), ney's sign), Organ involved is Appendix
	A) C)	Pancrease Colon	B) D)	Appendix Gall bladder
	-			
47.	Sup	erficial inguinal ring is triangular oper	ning in	*********
	A)	Fascia transversalis	B)	Internal oblique aponeurosis
	C)	External oblique aponeurosis	D)	Transversus abdominis
48.	gas		olannin	cerbation and requires an arterial blood ag to draw the sample from the brachial
	A)	In the lateral aspect of the arm, betw	een the	e biceps and triceps brachii muscles
	B)	Just lateral to the biceps tendon in the	ne cubi	tal fossa
	C)	Just medial to the biceps tendon in t	he cub	ital fossa
	D)	Just medial to the tendon of the flex	or carp	i radialis muscle at the wrist
(54)	(A)	(5))	[P.T.O.

49.	Foll A)	lowing are the features of typical lu Body is large and kidney shaped	ımbar verte	ebrae except
	B)	Vertebral foramen is triangular in	shape	
	C)	Presence of costal facet		
	D)	Presence of mammillary process	8	
50.	Sen	ninal vesicle develops from		
	A)	Mullerian duct	B)	Wolffian duct
	C)	Prostatic urethra	D)	Membranous urethra
51.	time		in due to i	ss that he ignored for 2 weeks. At that infection of the mediastinum. Through ad to the mediastinum?
	B)	Pretracheal space		
	2000	Retropharyngeal space		
	C) D)	Suprastemal space		
	45.8.84			
	A)	Point A	B)	Point B
	C)	Point C	D)	Point D
53.	The	Cell with cart wheel appearance n	ucleus is	
	A)	Macrophage	B)	Lymphocyte
	C)	Plasma cell	D)	Mast cell
54.	Block A) B)	od brain barrier is formed by Protoplasmic astrocytes Fibrous astrocytes		
	C)	Microglia		
	D)	Oligodendrocytes		
(54)	Ve 1723		(10)	

55. Heschl's gyrus receives input from which of the following neural structures?

- A) Angular gyrus
- B) Medial geniculate nucleus
- Primary auditory cortex
- D) Sensory strip

56. Match the description of a spinal cord tract in items 1 to 4 with the appropriate lettered structure shown in the figure.

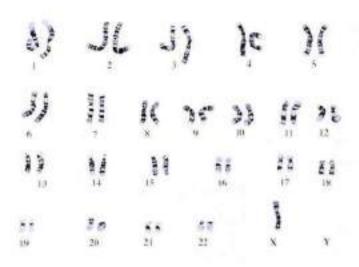


- 1 Projects to the cerebellum via the inferior cerebellar peduncle i A
- 2 Cells of origin are found in the precentral Gyrus ii D
- 3 Plays a role in regulating extensor tone iii B
- 4 Transmits vibration sensation from the ankle iv E
- A) 1-ii, 2-iv, 3-i, 4-iii
- B) 1-iv, 2-i, 3-ii,4-iii
- C) 1-iii, 2-iv, 3-ii, 4-i
- D) 1-i, 2-iii, 3-iv,4-ii

57. When the levator ani fails to arise from obturator fascia, it leads to

- A. Hiatus Urogenitalis
- B. Hiatus Rectalis
- C. Hiatus of Schwalbe
- D. none of the above

58.	Below	Karyotype suggests	syndrome.



A) Turner

B) Patau

C) Kleinfelter

- D) Edward
- 59. A newborn has multiple congenital defects due to dysgenesis of the neural crest. Which of the following cells is most likely to be spared?
 - A) Dorsal root ganglion cells
 - B) Geniculate ganglion cells
 - C) Melanocytes
 - D) Motor neurons
- 60. Yellow pointed structure is an example for ______type of epiphysis



A) Pressure epiphysis

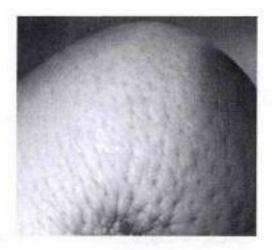
B) Atavistic epiphysis

C) Traction epiphysis

D) Abberent epiphysis

(54) (A)

61. This characteristic appearance over the skin of mammary gland is due to

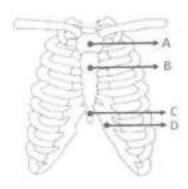


- A) Blockage of cutaneous lymphatics by cancer cells
- B) Infiltration of ducts by cancer cells
- C) Due to metastasis
- D) Obstruction of venous drainage
- 62. Match the following and tick the correct option
 - 1. Brachial artery
 - Axillary artery
 - 3. Thyrocervical trunk
 - Ulnar artery
 - A) 1-ii, 2-iv,3,- i, 4-iii
 - C) 1-iii,2-i, 3- iv, 4-ii

- Lateral thoracic artery
- ii. Common interosseous artery
- iii. Profunda brachii
- iv. Suprascapular artery
- B) 1-iv,2-ii,3-i, 4-iii
- D) 1-i, 2-ii, 3-iv, 4-ii
- 63. Neurologic examination reveals miosis, ptosis, hemi anhidrosis, left side; laryngeal and palatal paralysis, left side; facial anaesthesia, left side; and loss of pain and temperature sensation from the trunk and extremities, right side. The lesion is in the
 - A) Caudal medulla, ventral median zone, right side
 - B) Rostral medulla, lateral zone, left side
 - C) Rostral pontine base, left side
 - D) Caudal pontine tegmentum, lateral zone, right side
- 64. The following statements are true about second cervical vertebrae
 - i. Presence of anterior arch & Posterior arch
 - Presence of odontoid process
 - iii. Absence of body
 - iv. Presence of massive bifid spine
 - A) (i) and (ii) are correct
 - B) (i) and (iii) are correct
 - C) (ii) and (iii) are correct
 - D) (ii) and (iv) are correct

65.	P. Q.	Howships lacuna contains osteoc Osteoclasts are the macrophages		
	A)	P & Q are wrong	B)	Only P is correct
	C)	P & Q are correct	D)	Only Q is correct
66.	P.	Carotid sheath is a part of deep co	ervical fas	cia
	Q.	It is pierced by IX, X & XI crania	l nerves	
	A)	P & Q are wrong	B)	Only P is correct
	C)	P & Q are correct	D)	Only Q is correct
67.		ich structure passes through the ga	ap betwee	n the superior and middle constrictor
	A)	Recurrent laryngeal artery	B)	Internal laryngeal nerve
	C)	Superior laryngeal artery	D)	Glossopharyngeal nerve
68.	thre	5-year-old boy is eating a fish din bat." He complains of significant pa wes is responsible for carrying the s	in above th	
	A)	Internal laryngeal nerve	B)	Recurrent laryngeal nerve
	C)	Spinal accessory nerve	D)	External laryngeal nerve
69.	The	e sinoatrial node		
	A)	Contains cells which spontaneou	sly and rh	ythmically generate action potentials.
	B)	Is connected to the AV node by w	vay of Purl	kinje fibers.
	C)	Transmits impulses directly to th	e ventricu	lar myocardium.
	D)	Is the only normal pathway for ventricles.		conduction from the pacemaker to the
70.	Cap	pacitation involves the following fa	ictors exce	pt
	A)	Removal of acrosomal cap		
	B)	Alteration of glycoprotein coat of	of sperm h	ead
	C)	Removal of seminal proteins fro	m the hea	d the same and
	D)	Dissolves the tail of the sperm		

71. In the below picture, name the type of joint formed between A & B?



- Symphysis
- Saddle

- B) Syndesmosis
- D) Schindylesis
- 72. Choose the correct division pattern of renal arteries.
 - i. Arcuate
 - ii. Segmental
 - iii. Interlobar
 - Interlobular iv.
 - i, ii, iii, iv A)

ii, iii, i, iv B)

ii, iii, iv, i C)

a)

- D) i, iv, iii, ii
- Table below shows list of arteries in column 1 and their branches in column 2

Column 1

- Column 2 Coeliac trunk i. Middle colic artery
- Superior mesenteric artery
- c) Inferior mesenteric artery
- Internal iliac artery

- ii. Left colic artery
- iii. Middle rectal artery
- Left gastric artery iv. Correct matching of the arteries and their branch is
- a-iv, b-i, c-iii, d-ii
- a-iv, b-i, c-ii, d-iii

- a-ii, b-iii,c-i, d-iv B)
- a-ii, b-iii, c iv, d-i D)

Iliohypogastric nerve

Pelvic splanchnic nerve

Greater splanchic nerve

Presacral nerve

- 74. Match the following
 - 1. Coeliac plexus
 - 2. Lumbar plexus
 - Superior hypogastric plexus 3.
 - 4. Inferior hypogastric plexus

 - A) 1-ii, 2- iv, 3-i, 4-iii
 - B) 1-iv, 2-iii, 3-ii, 4-i
 - C) 1-iii, 2-i, 3-iv, 4-ii
 - D) 1-iv, 2-i, 3-ii, 4-iii
- (54) (A)

(15)

î.

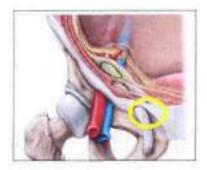
ii.

iii.

iv.

75.	Mat	ch the following derivatives with their	develo	pmental components
	1.	Epididymis	i.	Genital tubercle
	2.	Uterus	ii.	Vesicourethral canal
	3.	Urinary bladder	iii.	Paramesonephric duct
	4.	Body and glans clitoris	iv.	Mesonephric duct
	A)	1 - i, 2 - ii, 3 - iii, 4 - iv		
	B)	1 - ii, 2 - iv, 3- i, 4 - iii		
	C)	1 - iv, 2 - iii, 3 - ii, 4- i		
	D)	1 - i, 2 - iii, 3 - iv, 4 - ii		
20	A 111	E C. H	onal E	VCERT.
76.		the following are true about Adductor of	anai L	ACEF 1.
	A)	Roof contains subsartorial plexus One of the contents is femoral nerve		
	B)			
	C)	Also known as Hunter's canal;	. 1	
	D)	Posterior wall is formed by adductor	Tongu	s.
77.	trun	k, but he has no difficulty in flexing hi	ig fron is leg. \	n sitting position and straightening his Which of the following muscle is most
		ly to be affected?	TO	Tensor fascia lata
	A)	Hamstring muscle	B)	(150 PACTOR INCOMPRESS TO 100 PA
	C)	Gluteus maximus	D)	Iliopsoas
78.	tube	/-year-old unconscious woman is admit is inserted and passed into her esopha he physician as the tube passes from the Esophageal hiatus of the diaphragm Posterior to the aortic arch	gus. W	Level of superior thoracic aperture
79.	alor	ior resident draining pleural effusion in ng midaxillary line. When he inserts th erficial to deep are	nserts ie need	14-gauge needle at 5 th intercostal space le, the structures pierced in order from
	A)		ost int	tercostal muscle, endothoracic fascia,
	B)		racic fi	ascia, parietal pleura, visceral pleura
	C)	Innermost intercostal muscle, pariet	al pleu	ra, endothoracic fascia, visceral pleura
	Ď)	Internal intercostal muscle, endoth parietal pleura	oracic	fascia, innermost intercostal muscle,
80.	Ma	tch the following germ layers with thei	r deriv	atives
	1.	Ectoderm	i.	Lining of respiratory tract
	2.	Mesoderm	ii.	Melanocytes
	3.	Endoderm	iii.	Mammary gland
	4.	Neural crest cells	iv.	Dermis of skin
	A)	1-iii, 2-iv, 3-i, 4-ii		
	B)	1-iii, 2-i, 3-iv, 4-ii		
	C)	1-iv, 2-iii, 3-ii, 4-i		
	0.000	1-ii, 2-iii, 3-i, 4-iv		
YEAR	D)) (10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	aun.	
(54) (A)	(1	6)	

81. Following statements are true regarding the yellow circled region-



- A) It transmits ilio lumbar nerve
- B) It transmits spermatic cord in both the sexes
- C) Lies above and lateral to the pubic crest.
- Lies above and medial to the pubic crest.
- 82. The small saphenous vein empties into which of the following veins?
 - A) Femoral

B) Tibial

C) Peroneal

D) Popliteal

- 83. A 45-year-old woman is having significant uterine bleeding from uterine fibroids. The radiologist performs an embolization procedure of the uterine arteries. Through which of the following structures do the uterine arteries traverse?
 - A) Transverse cervical (cardinal) ligaments
 - B) Uterosacral ligaments
 - C) Vesicouterine fold
 - D) Anterior vaginal formix
- 84. A Surgeon exploring the thorax will be able to identify the right pulmonary artery in which of the following locations?
 - A) Anterior to the ascending aorta and the SVC
 - Anterior to the ascending aorta and posterior to the SVC
 - C) Posterior to the descending aorta and the SVC
 - Posterior to the ascending aorta and the SVC
- 85. 34-year-old woman had a direct blow to the patella during a car collision. The woman is admitted to the emergency department and radiographic examination reveals multiple fracture of patella. Which of the following muscles is attached to it?
 - A) Hamstrings

B) Calf muscle

C) Adductor muscles

- D) Quadriceps femoris
- 86. Meiosis in spermatogenesis occurs in which of the following step
 - A) Primary spermatocyte to intermediate spermatocyte
 - B) Primary spermatocyte to secondary spermatocyte
 - Secondary spermatocyte to spermatid
 - D) Capacitation

Project axons into the medial root ent Give rise to the fasciculus cuneatus ich of the following statement is FALSE Right renal artery passes behind the IV Left renal vein passes in between abdo The length of right renal vein is more Inferior suprarenal artery is a branch of 2-year-old male who has smoked for fi Which nodes would first receive lymph Jugulodigastric Submandibular	7/C ominal than to of Rer fly yed	l aorta and Superior Mesenteric Artery. hat of the left renal vein nal artery ars developed carcinoma of his lower
ich of the following statement is FALSE Right renal artery passes behind the IV Left renal vein passes in between abdo The length of right renal vein is more Inferior suprarenal artery is a branch of 2-year-old male who has smoked for fi Which nodes would first receive lymph Jugulodigastric	C ominal than t of Rer fly ye drain	hat of the left renal vein nal artery ars developed carcinoma of his lower
Right renal artery passes behind the IV Left renal vein passes in between abde The length of right renal vein is more Inferior suprarenal artery is a branch of 2-year-old male who has smoked for fi Which nodes would first receive lymph Jugulodigastric	C ominal than t of Rer fly ye drain	hat of the left renal vein nal artery ars developed carcinoma of his lower
Left renal vein passes in between abdo The length of right renal vein is more Inferior suprarenal artery is a branch of 2-year-old male who has smoked for fi Which nodes would first receive lymph Jugulodigastric	mina than t of Rer fly ye drain	hat of the left renal vein nal artery ars developed carcinoma of his lower
The length of right renal vein is more Inferior suprarenal artery is a branch of 2-year-old male who has smoked for fi Which nodes would first receive lymph Jugulodigastric	than to of Rer fly ye drain	hat of the left renal vein nal artery ars developed carcinoma of his lower
Inferior suprarenal artery is a branch of 2-year-old male who has smoked for fi Which nodes would first receive lymph Jugulodigastric	of Rer fly ye drain	nal artery ars developed carcinoma of his lower
2-year-old male who has smoked for fi Which nodes would first receive lymph Jugulodigastric	fly ye drain	ars developed carcinoma of his lower
Which nodes would first receive lymph Jugulodigastric	drain	
Jugulodigastric		
Jugulodigastric		age from this area?
Submandibular	B)	Juguloomohyoid
	D)	Submental
ich of the following BEST describes the	strat	um corneum?
Multilayered, large oval cells, Merke	l's dis	cs in hairless areas.
Single layer, undergoes mitosis, conta	ains m	nelanocytes.
Multilayered, cells completely keratir	nized	and dead.
Multilayered, granular cells, shriveled	d nucl	ei, keratohyalin present.
o dorsiflexion of foot at ankle joint. WI	hich o	f the following nerve is injured?
Femoral nerve	B)	Deep peroneal nerve
Superficial peroneal nerve	D)	Obturator nerve
tor speech area of Broca is situated in		
Superior temporal gyrus of temporal	lobe	
Superior frontal gyrus of frontal lobe		
Inferior temporal gyrus of temporal l	obe	
Inferior frontal gyrus of frontal lobe		
Maternal blood vessels, cytotropho mesoderm	blast,	syncytiotrophoblast, extraembryonic
	bryo	nic mesoderm, cytotrophoblast,
Cytotrophoblast, syncytiotrophoblast	, extra	embryonic mesoderm, Maternal blood
Syncytiotrophoblast, extraembryonic	meso	derm, Cytotrophoblast, Maternal blood
yvio	Multilayered, large oval cells, Merke Single layer, undergoes mitosis, conta Multilayered, cells completely keratir Multilayered, granular cells, shriveled ear-old woman is admitted to the emerge dorsiflexion of foot at ankle joint. Where the Emerge of Superficial peroneal nerve are speech area of Broca is situated in Superior temporal gyrus of temporal Superior frontal gyrus of frontal lobe Inferior temporal gyrus of temporal Inferior frontal gyrus of frontal lobe layers present in tertiary villi of placen Maternal blood vessels, cytotropholimesoderm Foetal blood vessels, extraem syncytiotrophoblast Cytotrophoblast, syncytiotrophoblast vessels	Multilayered, large oval cells, Merkel's dis Single layer, undergoes mitosis, contains m Multilayered, cells completely keratinized a Multilayered, granular cells, shriveled nucl ear-old woman is admitted to the emergency of dorsiflexion of foot at ankle joint. Which of Femoral nerve B) Superficial peroneal nerve D) or speech area of Broca is situated in Superior temporal gyrus of temporal lobe Inferior frontal gyrus of frontal lobe Compared to the emergency of temporal lobe Inferior temporal gyrus of temporal lobe Inferior frontal gyrus of frontal lobe Compared to the emergency of temporal lobe Inferior frontal gyrus of temporal lobe Inferior frontal gyrus of frontal lobe Compared to the emergency of temporal lobe Inferior frontal gyrus of temporal lobe Compared to the emergency of temporal lobe Compared to the emergency of temporal lobe Inferior frontal gyrus of temporal lobe Compared to the emergency of temporal lobe Compared t

(18)

(54) (A)

First-order neurons of the ventral spinocerebellar tract
 Are found in dorsal root ganglia at all levels

94.	Deviation of tongue to affected side due to unilateral Hypoglossal nerve injury is because of				
	A)	A ffacted ganical active musule on the	othor	eida	
	B)	FIVE - 12 10 FIVE BOOK FOR CONTROL CON			
	[1] [1] [1] [1] [1] [2] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4				
	(C) (D)	[1] - [1] - [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]			
	17) Attrected paratogrossus intusere on the same state				
95.	Paramedian infarction of the base of the pons involves which of the following structures?				
	A)	Trapezoid body	B)	Descending trigeminal tract	
	C)	Rubrospinal tract	D)	Pyramidal tract	
96.	An 18-year-old man is noted to have probable testicular cancer. He undergoes surgery				
	Afte	After incising the scrotum, the surgeon contemplates the approach to the parenchyma of			
	the testes. Through which layer must the surgeon incise to reach the testicular parenchyma?				
	A)	Buck fascia	B)	Tunica albuginea	
	C)	Dartos fascia	D)	Scarpa fascia	
97.	Nerve of Pterygoid canal is formed by				
	A)	A) Lesser petrosal & external petrosal			
	B)	Lesser petrosal & greater petrosal			
	C	C) Greater petrosal & deep petrosal			
	D)	Greater petrosal & external petrosal			
98.	Ovarian fossa is bounded anteriorly by				
	A)	Obturator artery	B)	Obliterated umbilical artery	
	C)	Ovarian artery	D)	Uterine artery	
99.	A 60-year-old man who had a history of a chronic duodenal ulcer was admitted to the				
	Emergency ward exhibiting signs of a severe internal hemorrhage. He was quickly				
	diagnosed with perforation of the posterior wall of the first part of the duodenum and				
	erosion of an artery behind it by the gastric expellent. The artery most likely is:				
	A)	Common hepatic	B)	Gastroduodenal	
	C)	Left gastric	D)	Proper hepatic	
100.	Which of the following techniques could you use to precisely locate the appendix?				
	A)				
	B)	Trace the right collect artery			
	C)	C) Trace the ileocolic artery			
	D)	Trace the taeniae coli on the cecun	1		
				_	

ROUGH WORK

(54) (A) (20)

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

Booklet Serial No. 213377

Test Booklet Series

TEST BOOKLET ENT

Written Test - 2023

(62)



Time Allowed: Two Hours

Maximum Marks: 100

INSTRUCTIONS

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
- 3. You have to enter your Roll Number on the
 Test Booklet in the Box provided alongside.

 DO NOT write anything else on the Test Booklet.
- 4. This Test booklet contains 100 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
- 6. All items carry equal marks.
- Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer /Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- 9. Sheets for rough work are appended in the Test Booklet at the end.
- While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- 11. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

(62) (A)/2023 [P.T.O.

1.	The inferior tympanic artery to the middle ear is a branch of					
	A)	Postauricular artery	B)	Caroticotympanic artery		
	C)	Ascending pharyngeal artery	D)	Facial artery		
2.	The	average size of the footplate of stape	es is:			
	A)	1.41 X 2.99 mm	B)	X 4.11 mm		
	C)	1.22 X 2.13 mm	D)	1.30 X 1.75 mm		
3.	The following test is similar to Carhart test but it incorporates rest periods during the testing. This test is					
	A)	Olson- Noffsinger test				
	B)	Owen test				
	C)	Rosenberg One-minute test				
	D)	Greemn Modified tone decay test				
4.	Ear	muffs, ear plugs provide the followin	g amount	of attenuation:		
	A)	5-10 dB	B)	10-20 dB		
	C)	20-40 dB	D)	40-50 dB		
5.	The	cochlear microphonics originate from	n			
	A)	Auditory nerve	B)	Cochlear nucleus		
	C)	Stria vascularis	D)	Hair cells		
6.	A 47 years old male presents with vertigo. During ENG testing, he has a right- beating nystagmus with left ear down and a left beating nystagmus with right ear down. This is suspicious of:					
	A)	Multiple sclerosis	B)	Viral Labyinthitis		
	C)	Positional alcohol nystagmus	D)	BPPV		

7.	was	ENG test a 23 years old female preses s noted that there was evidence of and ting eye movements. This is indicative	terior inte	n symptoms of unsteadiness, it er-nuclear ophthalmoplegia on		
	A)	Acoustic neuroma	B)	Meniere's disease		
	C)	Multiple sclerosis	D)	Subarachnoid hemorrhage		
8.	Wh	en a child repeats what is said to him	, it is terr	ned as		
	A)	Echolalia	B)	Repetitive verbal child		
	C)	Acholia	D)	Aprasia		
9.	The	region of the intermediate and deep l	ayers of	the lamina propria is called the		
	A)	Vocal fold				
	B)	Mebranous portion of vocal fold				
	C)	Vocal ligament				
	D)	Fibroblastic layer				
10.	Leopard syndrome is a form of congenital deafness associated with sensori- neural hearing loss, pulmonary stenosis, hypogonadism and					
	A)	Blue iris	B)	Elevated sweat chlorides		
	C)	Ocular hyper teleorism	D)	Mitral insufficiency		
11.	A 4 year old child had a cochlear implant inserted in his right ear at 3 years of age. She presents with Otitis media with effusion for the last 3 months. The next step is					
	A)	Suggest myringotomy with ventilation	on tube			
	B)	Suggest myringotomy				
	C)	Start on high dose of antibiotics				
	D)	Suggest no treatment and observe for	or infection	on		
12.		In performing a middle fossa approach to remove the acoustic neuroma, the anterior limit of dissection is				
	A)	Greater superficial pertosal neve	B)	Arcuate eminence		
	C)	Middle meningeal artery	D)	Facial nerve		

13.	The greater and lesser wings of sphenoid are separated by:					
	A)	Superior orbital fissure	B)	Foramen spinosum		
	C)	Foramen ovale	D)	Inferior orbital fissure		
14.	isa	testing the facial nerve in a 40 y difference between the two side low many mA suggests nerve d	s in minimal ner	합니다 보이지 않아 얼굴하다 보다 하고 있다면 하는데		
	A)	1 mA	B)	2 mA		
	C)	3.5 mA	D)	4.5 mA		
15.		vernous sinus syndrome is cau	CARROLL CONTRACTOR STATE OF THE PROPERTY OF TH	sis of the cavernous sinus is		
	A)	3,4, V2	B)	2,3,4, V1		
	C)	3,4,V1,V2	D)	3,4,V1, 6		
16.	Thy	mus gland is developed from				
	A)	Ventral aspect of thied pouch	(i			
	B)	Dorsal aspect of third pouch				
	C)	Ventral aspect of fourth pour	h			
	D)	Dorsal aspect of fourth pouc	h			
17.		atoplasty done for soft palate us roperiosteal flap is called	ing anteriorly an	d posteriorly based unipedicle		
	A)	Oxford procedure	B)	Von Langencback procedure		
	C)	Millard procedure	D)	Schweckendick procedure		
18.		The third most abundant serum immunoglobulin that interferes the adherence of microorganisms and alien macromolecules is				
	A)	Ig A	B)	IgD		
	C)	IgE	D)	IgM		
(62)	(A)		(5)	[P.T.O.		

19.	Triad of apical lung tumour, vocal cord paralysis and Horner syndrome is called					
	A)	Bourneville syndrome	B)	Bornier syndrome		
	C)	Pancoast tumour	D)	Forney syndrome		
20.	The	e average distance from incisor tee	eth to hiatus	is		
	A)	28 cm	B)	38cm		
	C)	42 cm	D)	49 cm		
21.	Floand	or of the orbit is formed by orbital	plate of max	illa, orbital surface of zygoma		
	A)	Lacrimal bone				
	B)	Sphenoid bone				
	C)	Orbital process of palatine bone				
	D)	Orbital process of frontal bone				
22.	Procedure of cecompression for malignant exophthalmos in which ethmoidectomy is done and floor of frontal sinus is removed is described by:					
	A)	Kronlein	B)	Sewell		
	C)	Naffziger	D)	Hirsch		
23.	A 4 She	0 year old female presents with has papilledema, paroxysmal posi	neadache, vo	miting ang gait disturbances. gmus. Most likely diagnosis is		
	A)	Cerebellar glioma	B)	Meningioma		
	C)	Chiari malformation	D)	CVA		
24.	ader) year old female has undergone s noma. Urinary output is grater tha al treat will include	surgery 18 ho n 250 ml/hou	ours previously for a pituitary or with a specific gravity of 1.		
	A)	DDAVP	B)	Propranolol		
	C)	Hydrocortisone	D)	Demedocycline		
(62)	(A)	((5)			

25.	The	The second most common cerebella-pontine angle masss lesion is					
	A)	Glioma	B)	Aneurysm			
	C)	Epidermoid	D)	Meningioma			
26.	Wh	ich of the following is	ototoxic:				
	A)	Busulfan	В)	Melphalan			
	C)	Ifusfamide	D)	Carboplatin			
27.	The	most common compl	lication of Endoscopic s	inus surgery is:			
	A)	Orbital emphysema	B)	Epiphora			
	C)	CSF leak	D)	Synechia			
28.	Wh	ich antibiotic has been	found to be beneficial in	n aphthous stomatitis:			
	A)	Vancomycin	B)	Clindamycin			
	C)	Erythomycin	D)	Tetracycline			
29.	The	e most common source	of infection of the perip	pharyngeal space is:			
	A)	Teeth	B)	Tonsils			
	C)	Mastoid	D)	Floor of mouth			
30.	Taş	te buds are absent in:					
	A)	Fungiform papillae	B)	Foliate papillae			
	C)	Filiform papillac	D)	Filiform and foliate papillae			
31.	X-ray showing concentric(onion skin layered appearance in a 18 years old male presents with mandibular swelling. Most likely diagnosis is						
	A)	Ameloblastoma	B)	Odontogenic carcinoma			
	C)	Ewings sarcoma	D)	Odontoma			

(7)

(62) (A)

[P.T.O.

32.	A young child is scheduled to receive polio booster. He is planned for tonsillectomy. Following should be done:							
	A)	A) Delay surgery for 6 weeks following vaccination						
	B)	Don't delay surgery						
	C)	Delay surgery for 2 weeks following	vaccina	tion				
	D)	Delay vaccination until after tonsilled	tomy					
33.		dening of perivertebral retrotracheal tis athologic if width is more than	sue on 2	X-ray neck at C2 vertebra level				
	A)	lmm	B)	3 mm				
	C)	5 mm	D)	7 mm				
34.	Barium swallow showing aperistalasis, esophageal dilation and failure of lower sphincter to relax with retention of ingested material in esophagus is suggestive of:							
	A)	Diffuse esophageal spasm	B)	Scleroderma				
	C)	Achlasia cardia	D)	Barrels esophagitis				
35.	Which investigation is best for a suspected esophageal perforation from a foreign body.							
	A)	Motion recording radiography						
	B)	Endoscopic ultasound radiography						
	C)	Air contrast esophagography						
	D)	Water soluble contrast esophagograp	hy					
36.	A patient presenting with loss of sensation on base of tongue and aspiration. This can be due to lesion at							
	A)	Foramen Magnum	B)	Jugular foramen				
	C)	Hypoglossal canal	D)	Carotid canal				

37.	Co	Constrictor muscles of pharynx are supplied by which nerve:				
	A)	Descendence hypoglossi	B)	Accessory nerve		
	C)	Vagus nerve	D)	Ansa hypoglossi		
38.	1.	parotid mass showing increased ely diagnosis is	focal activity	on radiosialography . Most		
	A)	Warthin tumour	B)	Acinic cell tumour		
	C)	Adenoid cystic carcinoma	D)	Mucoepidermoid carcinoma		
39.		turnour that arises from intercalated	ed duct cells a	nd terminal tubules of salivary		
	A)	Adenoid cystic carcinoma	B)	Adenocarcinoma		
	C)	Acinic cell carcinoma	D)	Mucoepidermid carcinoma		
40.	ade	atient presenting with deep upper nopathy. He has carcinoma in oral bably:				
	A)	Tongue	B)	Buccal mucosa		
	C)	Upper gingival	D)	Upper lip		
41.	The	most important route of spread of	of supraglottic	cancer is:		
	A)	Anteriorly to pre-epiglottis space	ce			
	B)	Superiorly to base of tongue				
	C)	Inferiorly to pyriform sinus				
	D)	Posteriorly to esophagus				
42.		dullary carcinoma of thyroid (M erplasia is:	TC), pheochr	omocytoma and parathyroid		
	A)	MTC with MEN 2A	B)	MTC with MEN 2B		
	C)	Familial non MEN MTC	D)	Sporadic MTC		
(62)	(A)		(9)	[P.T.O.		

43.	Mo	Most common site of deep hemangiomas in head and neck is					
	A)	Omohyoid space	B)	Masseter muscle			
	C)	Supraclavicular region	D)	Submandibular space			
44.	Cy	sts arising from enamel before the dev	elopmen	t of any dental tissues is:			
	A)	Primordial cyst	B)	Eruption cyst			
	C)	Dentigerous cyst	D)	Radicular cyst			
45.	In (Grade 2 of Sade retraction of tympanic	e membr	ane, there is:			
	A)	Retracted tympanic membrane					
	B)	Adhesive otitis media					
	C)	Middle ear atelectasis					
	D)	Retraction with contact onto incus					
46.		The theory of cholesteatoma formation in which retraction pocket deepens because of negative middle ear pressure and desquamated epithelium can not be cleared is:					
	A)	Epithelial invasion theory	B)	Invagination theory			
	C)	Basal cell hyperplasia theory	D)	Funnel theory			
47.	During stapedectomy, a segment of footplate enters the vestibule, one should:						
	A)	Abandon the surgery					
	B)	Use a small hook to retrieve it					
	C)	Do a burr hole and remove the segm	ent				
	D)	Proceed with surgery in normal way					
48.	Nas	al smear showing mastocytosis with s	parsity o	f eosinophils is typical of:			
	A)	Allergic rhinitis	B)	Rhinitis Medicamentosa			
	C)	Non allergic eosinophilic rhinitis	D)	Vasomotor rhinitis			
(62)	(A)	(10)					

49.	. The	The chances of inverted papilloma converting to squamous cell carcinoma is:				
	A)	1 %	B)	5 %		
	C)	10 %	D)	20 %		
50.		cal cord biopsy reveals acanthosis, pa billoma with no dyskeratosis. Most li		하다 경우를 가면 있다면 하는데 하는데 한 사람이 되는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하는데 하		
	A)	Carcinoma insitu	B)	Verrucous carcinoma		
	C)	Pseudoepithelial hyperplasia	D)	Pachyderma laryngitis		
51.	Age	ent used for Drug induced sleep end	loscopy is:			
	A)	Propofol	B)	Midazolam		
	C)	Halothane	D)	Thiopentone		
52.	The	e muscles that elevate the mandible ar	e Temporal	is, Masseter, Lateral pterygoid		
	A)	Digastric	B)	Mylohyoid		
	C)	Medial pterygoid	D)	Genioglossus		
53.		natient with subcutaneous emphyses st likely, there is a fracture of:	ma on the	cheek following an accident.		
	A)	Nasal process of frontal bone	B)	Lamina papyracea		
	C)	Ethmoid labyrinth	D)	Frontal process of maxilla		
54.	The	intra-oral approach to reduce zygo	matic fracti	ures is:		
	A)	Adam approach	B)	Gilies approach		
	C)	Keen approach	D)	Ludwig approach		
55.	Dru	g which can cause gingival hyperpla	sia is			
	A)	Frusemide	B)	Phenytoin		
	C)	Quinine	D)	Salicylates		
(62)	(A)	(11)		[P.T.O.		

56.	Mu	sculocutaneous flap which has the	most tenou	s blood supply is :			
	A)	Pectoralis	B)	Sternocleidomastoid			
	C)	Lattismus dorsi	D)	Deltopectoral			
57.	The	blood supply of deltopectoral flap	is				
	A)	Brachiocephalic artery	B)	Subclavian			
	C)	Pectoral artery	D)	Internal mammary artery			
58.	Dur	ring otoplasty removal of postauric	ular skin or	mastoid soft tissue can cause:			
	A)	Telephone ear deformity	B)	Mustarde defect			
	C)	Helical deformity	D)	Singapore ear			
59.	The	single most important factor in inc	reasing tip	support in rhinoplasty is:			
	A)	Not using intercartilaginous incision	on				
	B)	Using medial crura strut					
	C)	Using intradomal suture					
	D)	Not dividing lower lateral crura					
60.	Th	e deepest point in the nasofrontal a	ngle is:				
	A)	Radix	B)	Nasion			
	C)	Sill	D)	Sallion			
61.		narked decrease in speech recognition	on ability w	ith increasing intensity level is			
	A)	Cochlear pathology	B)	Central pathology			
	C)	Conductive pathology	D)	Retro-cochlear pathology			
62.	Po	Posterior semicircular canal and saccule are innervated by:					
	A)	Jacobson's nerve	B)	Auriculotemporal nerve			
	C)	Inferior vestibular nerve	D)	Superior vestibular nerve			
(62)	(A)	(12	2)				

63.	When the stapedius muscle contracts:				
	A)	Impedance of tympanic membrane	e increases	į į	
	B)	Impedance of Tympanic membrar	ne decreas	es	
	C)	Admittance of Tympanic membra	ane decres	ases	
	D)	Admittance of Tympanic membra	ne increas	es	
64	Inc	idence of congenital microtia is:			
	A)	1:20,000	B)	1:40,000	
	C)	1:50,000	D)	1:1,00,000	
65.	The	transformer ratio of middle ear is abo	out 22:1. T	his translates to approximately:	
	A)	5 dB	B)	10 dB	
	C)	25dB	D)	40 dB	
66.	of o	e audiometric test that is based on the one's voice in the presence of backg referes with self monitoring is called			
	A)	Lombard test	B)	Stenger test	
	C)	Chimani-Moose test	D)	Bing test	
67.	Trea	atment of dry traumatic rupture of ty	mpanic m	embrane is:	
	A)	Antibiotic ear drops			
	B)	Ear pack soaked with antibiotic			
	C)	Myringoplasty			
	D)	Protection of ear against water			
68.	Kin	ocilia is located			
	A)	In the saccule	B)	In the utricle	
	C)	Nearesr the tallest stereocilia	D)	On top of hair cells	
(62)	(A)	(13)		[P.T.O.	

69.	Kobrak test is a simple that is done when the patient in the upright position and head tilted back at a				
	A)	90 degrees	B)	30 degrees	
	C)	60 degrees	D)	45 degrees	
70.		iant of Menieres disease in which there to attack of vertigo is called:	is drama	ntic restoration of hearing agter	
	A)	Tumarkins crisis	B)	Cogan syndrome	
	C)	Rollet syndrome	D)	Lermoyez syndrome	
71.	Cod	chlear implant is contraindicated in:			
	A)	Mondinis deformity	B)	Alexander deformity	
	C)	Bing- sibbermann deformity	D)	Michels deformity	
72.		rans-labyranthine approach for acou	istic ne	euroma, spinal fluid may be	
	A)	Cochlear aqueduct	B)	Vestibular aqueduct	
	C)	Lamina cribrosa	D)	Sigmoid sinus	
73.	A p	atient presents with acute facial palsy.	The dif	ferential diagnosis include all	
	A)	Schwannoma	B)	Lymes disease	
	C)	Herpes zoster	D)	Kawasaki disease	
74.	Which test can predict facial nerve function or return 2-3 months before clinical evidence of recovery:				
	A)	Nerve excitability test			
	B)	Maximum stimulation test			
	C)	Electromyography			
	D)	Nerve conduction time			

13.	Tit	d Mancaris is					
	A)	Another name for anterior malleolar fold					
	B)	Thin membrane connecting malleus and incus					
	C)	Thin membrane connecting pars tensa to handle of malleus					
	D)	Part of lateral malleolar ligament					
76.	Ten	sor tympani takes its origin from:					
	A)	Lesser wing of sphenoid	B)	Greater wing of sphenoid			
	C)	Body of sphenoid	D)	Malleus			
77.	Am	old's nerve has contributions from	all except:				
	A)	Facial nerve	B)	Glossopharyngeal nerve			
	C)	Accessory spinal nerve	D)	Vagus nerve			
78.	Wh	ich of the following statement abou	at rodent ulc	er of pinna is incorrect:			
	A)) Most common site is tragus and border of helix					
	B)	Typical appearance is raised plaq	ue with roll	ed over edges			
	C)	Associated with enlarged lymph	nodes				
	D)	Best treatment is surgery					
79.	Tru	e statement regarding keratosis obt	urans is:				
	A)	Choleastotoma like mass in midd	le ear				
	B)	Can cause bone erosion					
	C)	Associated with canal stenosis					
	D)	Not associated with bronchiectas	is				
80.	Cau	Causes of cochlear degeneration are all except:					
	A)	Release of enzymes from middle	ear				
	B)	Bony invasion of scala tympani					
	C)	Circulatory changes due to abnor	mal bony fo	ci			
	D)	Damage to cochlea by toxic meta	bolites fron	abnormal bone			

(15)

(62) (A)

[P.T.O.

81.	What is	visible in g	grade 3	overhang of	posrero-superior	canal	wall:
-----	---------	--------------	---------	-------------	------------------	-------	-------

A) Stapedius mucle

B) Include-stapedial joint

C) Pyramid

D) Stapes footplate

82. Deafness with normal pure tone audiometry is called:

- A) Paroxysmal auditory disorder
- B) Rare auditory disorder
- C) Uncommon auditory disorder
- D) Obscure auditory disorder

83. Bill's island is:

- Vertical bone between facial and cochlear nerve at fundus of Internal auditory canal
- B) Horizontal bone between facial & cochlear nerve at fundus of Internal auditory canal
- C) Bone between ampulla of 3 semicircular canals
- Bone preserved over sigmoid sinus performing translabyranthine surgery

84. Cochlear implant map is:

- A) Structured flow chart containing preop workup & postop rehabilitation scheme
- A program containing patient's dynamic range of hearing with cochlear implant
- C) A schematic diagram comparing performance of implanted device over years
- D) A map showing location of centers with facility of cochlear implantation

85. Alexander's law states :

- A) Intensity of spontaneous nystagmus is equal in both directions
- B) Intensity of spontaneous nystagmus is stronger when looking up
- Intensity of spontaneus nystagmus is stromger when looking in direction of nystagmus
- Intensity of spontaneus nystagmus is stronger when looking down

86. BADGE (Bekesy Ascending Descending gap evalua				luation) is a test for:
	A)	Recruitment	B)	Hypacusis
	C)	Malingering	D)	Derecruitment
87.	Cor	nley surgical approach is called as:		
	A)	Midfacial degloving approach	B)	Transmandibular approach
	C)	Transhyoid approach	D)	Transzygomatic approach
88.	In (Gangosa there is:		
	A)	Shooting pain in nasal cavity	B)	Burning pain in nasal cavity
	C)	Radiating pain to ear	D)	No pain
89.	In t	ype 1 uncinate, the frontal ecess opens:	8	
	A)	Between uncinate and middle turbinat	e	
	B)	Medial to middle turbinate		
	C)	Between middle turbinate and septum	B)	
	D)	Between middle and inferior turbinate		
90.	In g	lycerol test I diagnosis of Meniere's dis	seases i	s suggestive when:
	A)	A raise in threshold of atleast 2 dB		
	B)	A raise in threshold of atleast 5 dB		
	C)	raise in threshold of atleast 10 dB		
	D)	Increased deafness		
91.	Exp	ansion of nasal bridge with thickening	and disc	colouration of skin is seen in:
	A)	Lupus pernio	B)	Wegener's granuloma
	C)	Yaws	D)	Leprosy

74.	2/0	Actiniavin is used in the treatment of.				
	A)	Rhinoscleroma	B)	Rhinosporidiosis		
	C)	Leprosy	D)	Syphillis		
93.	All	are true about Jacobson's nerve except	:			
	A)	Is a branch of superior ganglion of va	gus nei	rve		
	B)	Supplies middle ear				
	C)	Supplies secretomotor fibres to paroti	id glan	d		
	D)	Nerve sectioning relieves gustatory sw	eating			
94.	Jah	rsdoerfer's criteria is used to:				
	A)	Grade patients with hyperostosis of ex	cternal	canal		
	B)	Select patients of meatal atresia who w	vill ben	efit from surgery		
	C)	Classification of anomalies of pinna				
	D)	Classification of anomalies of branchi	al cleft			
95.	Stin	nulation of which nerve doesn't cause re	eferred	otalgia:		
	A)	Buccal nerve	B)	Descendance hypoglossi		
	C)	Vagus nerve	D)	Lingual nerve		
96.	Para	asympathetic innervation of submandib	ular gla	and is by:		
	A)	Lesser petrosal nerve				
	B)	Greater superficial petrosal nerve				
	C)	Deep petrosal nerve				
	D)	Facial nerve				
97.	Which is correct regarding physiological stimulation of saliva:					
	A)) Basal saliva secretion is primarily from parotid gland				
	B)	Parasympathetic stimulation decreases salivary flow				
	C)	Parotid gland contains mucinous glands				
	D)	Salivary ionic content is modified by i	ntercal	ated duct cells		

(62) (A)

98.	What describes th	e best for	physiology	of olfaction:
-----	-------------------	------------	------------	---------------

- A) The primary neuron cell body of olfactory nerve is located in olfactory bulb
- B) Vomeronasal organ detects tactile for passing odorants
- Noxious stimuli from posterior nasal vcaviy are detected by 9th nerve
- D) Olfactory receptor neurons donot regenerate

99. Which statement is false:

- A) Lidocaine acts to reversibly block sodium channels in nerve fibre
- B) Lidocaine causes vasoconstriction when given subcutaneously
- Alcoholic cirrhosis can reduce metabolism of bupivacaine
- Local anesthetics with low pKa have faster onset of action

100. Which of the following muscle is not attached to mastoid:

A) Digastric

B) Temporalis

C) Splenius capitis

D) Anterior auricular muscle

ROUGH WORK

(62) (A) (20)

Booklet Serial No. 213825

Test Booklet Series

TEST BOOKLET ORTHOPAEDICS

Written Test - 2023

(72)



Time Allowed: Two Hours

Maximum Marks: 100

INSTRUCTIONS

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
- You have to enter your Roll Number on the 3. Test Booklet in the Box provided alongside. DO NOT write anything else on the Test Booklet.
- This Test booklet contains 100 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Answer /Response Sheet provided, See 5. directions in the Response Sheet.
- All items carry equal marks.
- Before you proceed to mark in the Answer /Response Sheet, the response to various items in the 7. Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
- After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer /Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- Sheets for rough work are appended in the Test Booklet at the end. 9.
- While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
- If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

(72) (A)

- 1. Which of the following is the most likely long term outcome of utilizing a cylindrical fully porous-coated femoral stem prosthesis for a patient with Dorr type A femoral morphology?
 - A) Proximal bone remodelling due to stress sheilding
 - B) Loosening of femoral stem
 - C) Subtrochanteric fracture
 - Proximal femoral osteolysis
- Which of the following statements is false regarding outcome with reference to pain in middle aged patients with mild to moderate degenerative osteoarthritis of knee?
 - Significant reduction in pain and improvement in quality of life of patients who undergo monitored physical therapy program
 - Monitored physical therapy showed reducation in pain equal to that of patients who were taking NSAIDs
 - Physical therapy provides long term relief and is sustained even after exercises are stopped
 - Land based physical therapy, including aerobic exercises and traditional strengthening are the mainstay to improve on pain and joint movements
- Treatment of increasing painless flexible varus deformity following soft tissue correction of hallux valgus deformity in an young adult should be all except:
 - A) Shoe modification
 - B) Toe taping
 - Split extensor hallucis longus tendon transfer
 - D) 1st MTP joint cheilectomy
- 4. Which of the following is an indication for operative treatment of posterior wall operative treatment of posterior wall acetabular fracture?
 - A) Fracture displacement of 1mm
 - B) Instability of the posterior wall on stress radiographs
 - Femoral head congruent with acetabulum
 - D) No intra articular loose bodies

- 5. A young adult athelete sustained a minor direct injury to his knee 1 year after ACL reconstruction. He has a positive Lachman test and pivot on examination. Which of the following factors most likely contributed to his failure?
 - A) Femoral fixation failure
 - B) Tibial fixation failure
 - C) Graft choice
 - D) Returning to sport soon
- 6. Treatment for traumatic spondylolisthesis of C 2-3(Hangman's fracture) Type-III is
 - A) Rigid cervical collar
 - B) Halo vest for 12 weeks
 - C) Anterior instrumentation and arthrodesis
 - Posterior open reduction, instrumentation and arthrodesis
- 7. A 17 Year old male football player has posterior shoulder pain and sense of giving way that occurs with bench press and blocking. Physical examination reveals a Grade-2 posterior load shift and positive jerk tests. X rays are normal. Which of the following is the most appropriate operative approach for this pathology?
 - A) Arthroscopic Bankart's repair
 - B) Arthroscopic posterior labral repair and capsuloraphy
 - Posterior opening wedge glenoid osteotomy
 - Open modified McLaughlin procedure
- 8. A 12 Year old boy with spina bifida has L-4 functional level. One year back his Lumbar X-rays showed 10 degree scoliotic curve. Recently the curve has progressed to 40 degrees. Which of the following is the next most appropriate step for this patient?
 - A) Spine Magnetic Resonance imaging
 - B) Posterior spinal fusion
 - TLSO brace to halt the curve
 - D) Posterior spinal fusion with pelvic fixation
- 9. Which of the following is true regarding rigid locking plate constructs in fracture fixation?
 - A) Locking plates always enhance fracture healing more than conventional plates
 - B) Locking plates reduce interfragmentary strain more than conventional plating
 - C) Locking plates are best utilised in diaphyseal fractures
 - D) Locking plates are contraindicated in patinets with osteoporosis

- 10. Treatment of continuing 'locking' and flexion contracture of 20 degrees at PIP joint of index finger following 6 months old A-1 pulley release for triggering is:
 - A) Resection of flexor digitorum profundus tendon
 - B) Resection of ligament of skoog (Transverse Ligamnet of palmar Aponeurosis)
 - Resection of slip of flexor digitorum superficialis tendon
 - D) Resection of volar metacarpophalyngeal capsule
- 11. Which of the following radiographic features would most likely be present with adult dysplasia of the hip?
 - A) Coxa valga
 - B) Increased sphericity of the femoral head
 - Increased acetabular retroversion with cross over sign
 - D) Lateral Ceter-Edge angle of 34 degrees
- Evidence based initial treatment of patellofemoral pain without ligament instability and good range of movement
 - A) Bracing
 - B) Low impact quadriceps strengthening exercises
 - C) Glucosamine chondroitin supplementation
 - D) Stem cell therapies
- 13. When compared with adult hallux valgus deformity, juvenile hallux valgus deformity is associated with higher percentage of which of the following postoperative occurrences?
 - A) Osteonecrosis of first metatarsal head
 - B) Hallux varus
 - C) Hallux valgus recurrence
 - D) Infection
- 14. A chronic granulomatous infection charecterised by subcutaneous masses, draining sinuses and presence of granules in exudates in the region of ankle and foot is caused by:
 - A) Sporotrichosis
 - B) Mycobacterium marinum
 - C) Actinomycetoma
 - D) Clostridium tetani

- 15. There are 13 types of Ehlers-Danlos syndromes (EDs.) Which amongst the following is the most common type?
 - A) Hypermobile EDs
 - B) Classical EDs
 - C) Vascular EDs
 - D) Kyphoscoiotic EDs
- 16. Hip abduction of>60 degrees in a spica cast given as treatment for Developmental Dysplasia of Hip causes:
 - A) Better chances of containment
 - B) More chances of recurrence
 - C) Osteonecrosis of femoral head
 - D) Anterior dislocation of femoral head
- 17. Procedure to convert an off-track lesion to an on-track lesion with 30% glenoid bone defect is:
 - A) Arthroscopic Bankart's repair
 - B) Open Latarjet procedure
 - C) Arthroscopic Bankart procedure plus remplissage
 - D) Open glenoid reconstruction with distal tibia allograft
- 18. Most common complication of minimally invasive surgery done for L5-S1 foraminal discherniation without any other spine abnormality is:
 - A) Latrogenic instability requiring fusion
 - B) Incomplete decompression
 - C) Arterial injury
 - D) Retrograde ejaculation
- 19. Treatment of choice for chronic Achilles tendon rupture in a 40 year old athelete
 - A) A low-profile ankle
 - B) Tendon debridement and repair
 - Achilles tendon repair with soft tissue augmentation as necessary
 - D) Physical therapy
- 20. Persistent pain and mobility at fracture site in a 2 year old conservatively managed fracture clavicle is more likely due to:
 - A) Fracture non-union
 - B) Fracture malunion
 - C) Delayed fracture union
 - D) Refracture

- 21. Deep dissection to the hip using direct anterior approach utilises which of the following interpervous intervals?
 - A) Superior gluteal nerve and femoral nerve
 - B) Inferior gluteal nerve and femoral nerve
 - Femoral nerve and obturator nerve
 - D) Superior gluteal nerve and inferior gluteal nerve
- 22. A 70 year old female presents with isolated displaced femoral neck fracture with prexisting osteoarthritis of hip. She is otherwise active in life and used to walk independently prior to the fracture. Which of the following is the best management option for this patient?
 - A) Open reduction and internal fixation with compression screws
 - B) Hemiarthroplasty
 - C) Sliding hip screws
 - D) Total hip arthroplasty
- 23. An 20 year old female athelete training for marathon presents with lower leg pain for the previous 3 monts. Pain is worse with activity and relieved with rest. BMI is 19kg/sqm. X rays demonstrate a defect of anterior cortex of tibia coiniciding with the maximum tender point Which of the following options is the most appropriate treatment?
 - A) Immobilisation
 - B) Activity modification
 - C) Tibia intramedullarynail
 - Gait analysis followed by Orthotics and physical therapy for running
- 24. A 55 year old male patient presents with a recent onset bilateral symmetrical diffuse hand numbness. He has no balance problems, His pysical examination show 3+deep tendon reflexes, Gr V motor power, normal gait, downgoing Babinski without clonus, MRI shows mild cord compression at C5-C6 from disc-osteophyte complex without signal changes in the cord. Which of the followings is the most appropriate next step for this patient?
 - A) EMG/NCV studies for peripheral nerve disease
 - B) Anterior cervical diskectomy and fusion
 - C) Physiotherapy
 - D) Laminectomy C5-C6
- 25. Advantage of arthroscopic Bankart's repair versus an open Bankart's repair?
 - A) Lower risk of recurrent dislocation
 - B) Faster return to sports
 - Improved cosmesis with arthroscopy
 - D) Lesser surgical time

- 26. Most efficient tool to confirm/rule out syringomyelia in progressive scoliosis and abnormal reflexes in paediatric age group is:
 - A) Physical examination only
 - B) Total spine Magnetic Resonance Imaging
 - Electromyography and nerve conduction study
 - D) CT scan with myelography
- 27. Which of the following factors increase the fracture risk in a patient with osteoporosis?
 - A) Progressive thickening of the trabeculae in cancellous bone
 - B) Increased cortical perimeter of the long bones
 - C) Progressive increase in cortical porosity
 - D) Greater mineral hydroxyapatite crystal size heterogeneity
- 28. Specific classification system used for basilar thumb (1st CMC joint) arthritis
 - A) Eaton and Litter
 - B) Kellgren and Lawrence
 - C) Broberg and Morrey
 - D) Watson and Ballet
- 29. Transfer metatarsalgia is caused by:
 - A) Sesamoiditis
 - B) Hallux valgus
 - C) First MTP arthritis
 - D) All of the above
- 30. Treatment of choice for Stage I (early) degenerative arthritis of knee with 12 degrees varus alignment and no other chondral pathology in an active middle aged male otherwise surgically fit is:
 - A) Osteoarticular transfer system (OATS)
 - B) Tibial medial opening wedge osteotomy
 - C) Arthrppscpic debridemnt of medial tibio-femoral joint
 - D) Total knee replacement
- 31. APC Type 2 pelvic ring injury is best managed definitively by:
 - A) Protected weight bearing
 - B) Posterior stabilization with plate alone
 - C) Anterior symphyseal plating with or without posterior stabilization
 - D) Posterior stabilization with sacroiliac screws alone

- 32. A 50 years old male presents with noninsertional Achilles tendinits that has not been relieved even after around a year of intensive physiotherapy and rehabilitation. He has 10 degrees of ankle dorsiflexion both in extension and flexion of knee. MRI confirms the diagnosis of noninsertional tendinits. Which of the following is the next step in management?
 - A) Gastrocnemius recession
 - B) Achilles tendon debridement, calcaneal exostectomy and flexor hallucis transfer
 - C) Continued nonoperative treatment with aggressive physical therapy
 - Operative debridement of the Achilles tendon with or without a flexor hallucis longus transfer
- 33. Which of the following statements regarding odontoid fractures is false?
 - Odontoid fractures are relatively common fractures of C-2 that can be seen in low energy falls in elderly patients and high energy traumatic injuries in younger patients
 - Odontoid fractures in octogenarians (>80 years) are associated with lesser morbidity and mortality compared to younger patients regardless of intervention
 - Treatment of odontoid fractures may be nonoperative or operative depending on type and risk factors for nonunion
 - MRI is rarely indiacted as these fractures are usually not associated with neurologic symptoms
- 34. Which of the following is the best radiographic view for identifying a Hill-Sach's defect?
 - A) Stryker notch view
 - B) Grashey view
 - C) Scapular 'Y' view
 - D) West 'Y' view
- 35. Triad of painless limited neck range of motion, short neck and low posterior hairline is suggestive of:
 - A) Os odontoideum
 - B) Congential muscular torticollis
 - C) Sprengel shoulder
 - D) Klippel-Feil syndrome
- 36. Stem cells can be obtained from all of the following except:
 - A) Bone marrow
 - B) Periosteum
 - C) Skeletal muscle
 - D) Synovial fluid

37.	Recurrence of symptoms after release of De Quervain's tenosynovitis with negative Tinel sign and normally appearing skin should be due to:				
	A)	Complex regional pain syndrome			
	B)	Failure to decompress the EPL sub-sheath			
	C)	Failure to decompress the EPB sub sheath			
	D)	Failure to decompress the APB sub-sheath			
38.		rmetatarsal angle (IMA) is a radiographic measurement used in hallux valgus. Normal A is:			
	A)	15 degrees			
	B)	<9 degrees			
	C)	>9 degrees			
	D)	<15 degrees			
39.		presence of contiguous central meniscus on three consequtive slices of MRI scan			
	A)	Horizontal tear			
	B)	Buket-handle tear			
	C)	Complex tear			
	D)	Dsicoid meniscus			
40.		interval between pyriformis tendon and posterior border of gluteus minimus is stified and sharply dissected in:			
	A)	Watson jones approach			
	B)	Safe surgical dislocation of hip			
	C)	Modified Gibson's approach			
	D)	Kocher-Langenbeck approach			
41.	All of the following are true regarding acute traumatic posterior sternoclavicualr joint dislocation except:				
	A)	The medial aspect of clavicle could likely press against vital organs			
	B)	In all cases the joint is pinned situ irrespective of the clinical presentation			
	C)	Emergent closed or open reduction of the dislocated joint would be necessary in some cases			
	D)	Even in case patient complaints of choking and hoarseness of voice urgent swallowing study is not required			
(72)	(4)	oranowing study is not required			

42.	Ope is	erative treatment indicated in Golfer's elbow not relieved by non-operative methods
	A)	Ulnar collateral ligament reconstruction
	B)	Open debridement and reattachment of flexorpronator mass
	C)	Elbow arthrscopy and ulnar collateral ligament repair
	D)	Release of brachioradialis, ECRL and ECRB
43.		ich of the following statements is false regarding role of epidural steroids in culopathy associated with spinal stenosis?
	A)	Its use is associated with immediate reduction in pain and function
	B)	Benefits were large and sustained
	C)	There is no effect on long-term surgery risk
	D)	It has limited/no effectiveness for cord symptoms of spinal stenosis
44.	Wh	ich is not a deep heat therapy?
	A)	Shortwave diathermy
	B)	Infrared therapy
	C)	Microwave therapy
	D)	Local ultrasound
45.	Clin	nical test to identify external snapping hip syndrome
	A)	Log roll test
	B)	Scour test
	C)	Ober's test
	D)	Stinchfield test
46.	this	gnosis after secondary nerve suturing is better in pure than in mixed ones, Based on criterion, which one of the following nerves should be given the best result after tring in identical conditions?
	A)	Common peroneal nerve
	B)	Radial nerve
	C)	Ulnar nerve
	D)	Median nerve
		(II) IPTO.

- 47. CTS-6 diagnostic tool used for carpal tunnel screening includes all except
 - A) Numbness predominantly in median nerve distribution
 - B) Diurnal symptoms preceeding nocturnal symptoms
 - C) Thenar atrophy or weakness
 - D) Loss of 2 point discrimination
- 48. Extension at DIP joint, flexion at PIP joint and slight extension at MTP joint is seen is:
 - A) Claw toe
 - B) Hammer toe
 - C) Mallet toe
 - D) Curly toe
- 49. A 71 year old male patient presents with right knee pain. He has correctable 7 degree varus deformity and minimal flexion contracture. He is of moderate built and reports being minimally active. Radiographs show complete loss of joint space in the medial compartment. Non-operative measures to control pain have been unsuccessful. Which of the following is the best operative option?
 - A) Arthroscopy
 - B) High tibial osteotomy
 - C) Unicompartmental knee arthroplasty
 - D) Knee arthrodesis
- 50. A patient undergoes total hip arhtroplasty using a direct lateral (modified Hardinge) approach. Postoperatively, the patient notes a persistent limp and ambulates with a Trendelenburg gait. This outcome may have been caused by which of the following?
 - A) Dissection through the iliotibial band
 - Excessive soft tissue dissection proximal to the greater trochanter
 - C) Release of the indirect head of the rectus femoris
 - D) Femoral nerve palsy
- 51. Which of the following congenital conditions is caused by glycine substituion/deletion in the procollagen molecule?
 - A) Diastrophic dysplasia
 - B) Fibrous dysplasia
 - C) Ochronosis (alkaptonuria)
 - D) Osteogenesis imperfecta

- 52. A 24 year old male patient presents to the emergency department after being involved in a high speed motor vehicle collision and is diagnosed with a femoral shaft fracture. Which of the following is considered the gold standard of fixation for this type of fracture?
 - A) Reamed, locked intramedullary nail
 - B) External fixation
 - C) Plate and screw fixation
 - Unreamed locked antegrade nail
- 53. A 20 year old male patient who is a college football player is seen of the sideline after sustaining a direct blow to the front of the left hip. He has a small hematoma and swelling adjacent to his anterior superior iliac spine, No crepitus is noted on palpation. His examination demonstrates limitations in hip strength and range of motion. Which of the following is the best next step in management?
 - A) Ice, protective padding and return to play as toleraed
 - B) Radiograph of the pelvis before return to play
 - C) Computed tomography scan of the pelvis befor return to play
 - D) Ice and restrict to play
- 54. Initial treatment of stable osteoporotic compression fractures should be
 - A) Vertebroplasty
 - B) Thoracolumbosacral orthotics and physical therapy
 - C) Pain management and reevaluation
 - D) Operative decompression and posterior fusion
- 55. Criteria for asseptable reduction in non-operative treatment of closed fracture shaft humerus include all except:
 - A) 20 degrees of anterior angulation (bowing)
 - B) Less than 30 degrees of varus valgus angulation
 - C) 25 degrees of rotation
 - D) Less than 3 cms of shortening
- 56. Charecteristic feature of Gustilo Anderson type III A fracture is:
 - A) Extensive soft tissue injury with periosteal stripping
 - B) Major wound contamination
 - Adequate soft tissue cover of bone despite extensive soft tissue damage
 - Comminuted fracture not permitting anatomic reduction

- 57. Which of the following best describes a cell and its phenotypic charecteristics?
 - A) Osteocytes are rounded inactive cells immobilized in mature bone
 - Chondrocytes are rounded cells with low metabolic rate found in collagen type IIrich matrix in cartilage
 - C) Osteoblasts comprise the majority of bone cells
 - Oseocytes are small discoid cells found on the surface of bone
- 58. All of the following are features of lumbricals of the hand except:
 - A) Lumbricals are four small worm like muscles attached proximally to tendons of flexor profundus and distally to extensor expansion
 - The first and second lubricals are supplied by the median nerve while the third and fourth are supplied by ulnar nerve
 - C) Lumbricals flex the metacarpophalangeal joints and extend the interphalangeal joints
 - D) Unlike the dorsal interossei, all lumbrical muscles are bipennate
- 59. After arthroscopic shoulder surgery a 45 year old male develops pain, weakness and decreaased sensation over the lateral arm and shoulder. If this injury was due to portal placement, which of the following portals would be the most likely cause?
 - A) Lateral superior
 - B) Posterior superior
 - C) Anterior portal
 - D) Posterior inferior
- 60. Which of the following statements is false regarding enchondroma?
 - A) Enchondroma is one of the most common benign bone tumor
 - B) Males and females are equally affected
 - Infrequently they are symptomatic causing soft tissue swelling and less likely pain at the lesion site
 - Treatment is largely operative in form of curettage
- 61. Which of the following is the most common type of Monteggia fracture pattern in adults?
 - A) Bado type 1
 - B) Bado type 2
 - C) Bado type 3
 - D) Bado type 4

- 62. In acute ankle sprain which of the following ligaments in injured most commonly?
 - A) Anterior talofibular ligament
 - B) Calcaneofibular ligament
 - C) Posterior talofibular ligament
 - D) Deltoid ligament
- 63. Which of the following statements about the lateral femoral cutaneous nerve is true?
 - A) Inadvertent sacrifice of the nerve during surgical dissection does not lead to any complication
 - B) Root value of the nerve is L5-S1
 - C) Courses under the inguinal ligamenet and pierces the fascia lata
 - D) It is absent in 50% of the general population
- 64. FRAX' in relation to orthopaedics stands for:
 - A) Femoral reaming and nailing
 - B) Fibular resection and grafting
 - C) WHO fracture risk assessment tool
 - Forearm anterior and posterior x ray
- 65. Early postoperative physiotherapy is recommended after arthroscopic repair of rotator cuff tendon. When compared with an early range-of-motion protocol, a more prolonged immobilization protocol, a more prolonged immobilization protocol may lead to postoperatively?
 - A) No difference in range of motion or VAS pain scores at 6 months
 - B) Higher re-tear rates and lower satisfaction scores
 - Worse stiffness and more pain
 - D) Lower VAS pain scores
- 66. Damage control orthopaedic treatment is cases of multiple fractures would be like:
 - A) Open reduction and internal fixation of all fractures
 - B) Intramedullary nailing of long bone fractures and splinting of other fractures
 - C) External fixation of all fractures till early signs of fracture union
 - External fixation of all fractures with definitive fixation when general condition permits
- 67. Boxer's fracture is:
 - A) Fracture of head of 5th metacarpal
 - B) Fracture of neck of 5th metacarpal
 - C) Fracture of shaft of 5th metacarpal
 - D) Fracture of base of 5th metacarpal

- 68. All of the following are true about spinal shock except:
 - A) It is physiological response to acute spinal cord injury
 - All reflexes below the level of injury are absent
 - Hypertonia and spastic muscle paralysis below the level of injury is charecteristic
 - Resolution is defined as appearance of bulbocavernous reflex and/or anal wink
- 69. Comma sign in magnetic resonance arthrogram of shoulder is suggestive of:
 - Failure of superior glenohumeral ligament leading to instability of long head of biceps tendon
 - Tear of anterior inferior labrum and inferior glenohumeral ligament from the glenoid
 - Tear of anterior band of inferior glenohumeral ligament from proximal humeral attachment
 - D) Posterior dislocation following tear of posterior inferior capsule
- 70. Known complication of Pavlik harness used for hip dysplasia is:
 - A) Avascular necrosis of hip
 - B) Femoral nerve palsy
 - C) Loss of adduction of hip
 - D) Limb length discrepancy
- 71. Which of the following are charecteristic radiographic signs of inflammatory arthritis?
 - A) Subchondral scelrosis
 - B) Marginal erosions
 - Medial side joint space narrowing
 - D) Large periarticular osteophytes
- Haglund deformity is best defined as:
 - A) It is tumour like enlargement of Achilles tendon
 - B) Swelling on the back of heel due to chronic osteomyelitis of calcaneum
 - An enlargement of postero-superior tuberosity of the calcaneus due to chronic inflammation of retro-calcaneal bursa
 - D) A benign tumour presenting as bony mass on the heel arising from calcaneum
- 73. Reconstruction procedure in a case of comminuted fracture of the inferior pole of patella (5 fragments, 40% of patella) would be:
 - A) Total patellectomy
 - B) Encerclage wiring
 - C) Cannulated screw fixation
 - Inferior pole patellectomy with suturing of patellar tendon to the proximal part

- 74. Which of the following is not an independent predictor used in the Thoraco Lumbar injury Classification and Severity (TLICS) score?
 - A) Injury morphology
 - B) Level of injury
 - Posterior ligamentous complex status
 - D) Neurologic status
- 75. True statment about chondromalacia of patella:
 - A) Symptoms include dull aching pain or discomfort localized to anterior knee, which is most prominent after sitting in one position for a long time
 - Early surgery is preferred over conservative treatment to halt or slow the progression of disease
 - C) In contrast to osteoarthritis of knee where initial changes occur in ground substance in the deep level of cartilage, initial changes of chondromalacia occur in surface of the cartilage
 - D) It occurs after acute septic arthritis
- 76. Growth abnormality of which structure leads to madelung deformity?
 - A) Distal ulnar physis
 - B) Carpal bones of proximal row
 - C) Palmar part of distal radial physis
 - D) Both distal radius and distal ulnar physis
- 77. A carpenter has chronic pain over lateral aspect of elbow. He has pain while using the hammer. He has pain with restricted wrist extension while the elbow is fully extended. Which muscle is more likely involved?
 - A) Supinator
 - B) Extensor carpi radialis brevis
 - C) Brachioradialis
 - D) Extensor carpi radialis longus
- 78. Progressive weakness and wasting of muscles is charecteristic of muscular dystrophies. Which amongst the following dystrophies has fast progression effectively decreasing the survival of the affected?
 - A) Duchenne
 - B) Becker
 - C) Emery-Dreifuss
 - D) Limb-girdle

- All of the following are valid interventions that help restore anatomic limb length during total hip arthroplasty except
 - A) Pre-op clinical and radiographic assessment of limb length
 - B) Use of arthroplasty system incorporating variable neck length
 - Intra-op assessment of limb length using markers
 - D) Alteration of femoral offset to correct length
- 80. Metastatic bony lesions that occur distal to the elbow or knee are most likely to originate from which one of the following primary organ?
 - A) Breast
 - B) Lung
 - C) Prostate
 - D) Uterus
- 81. Which of the following best describes the mechanical and biochemical changes leading to the development of fat embolism syndrome following a fracture?
 - A) Cytokines invade lung tissue, causing microvasucular blood clots
 - Hematopoietic particles embolize to the lungs, causing mechaincal blockage and local tissue necrosis
 - Acidic lipid particles embolize to the lungs, causing mechanical blockage and local inflammation
 - Lipids are released into the microvascular system
- 82. Which of the following best describes the comparison of medial parapatellar approach with the subvastus approach for total knee arthroplasty?
 - A) Lower lateral release rates with subvastus approach
 - B) Better range of motion at 1 year with the medial parapatellar approach
 - C) Better straight leg raising at 1 year with the medial paraptellar approach
 - D) Worse range of motion at 1 week with the subvastus approach?
- 83. Virchow's triad is associated with formation of thrombi. Which of the following is not a reason for the development of thormboebolism in joint replacement surgeries?
 - A) Hemolysis leading to platelet dysfunction
 - Patient positioning, limb swelling and reduced mobility
 - C) Endothelial damage during limb manipulation intra operatively
 - D) Blood loss leading to fall in antithrombin iii

	B)	Increased phosphate level	
	C)	Low alkaline phosphatase levels	
	D)	Increased parathyroid hormone level	
85.		ich of the following are the differences between cemented and cementless fixation he femoral component after total hip arthroplasty?	
	A)	Cementles fixation has superior outcomes with regards to wear	
	B)	Cemented fixation has superior outcomes and survivorship	
	C)	Cemented fixation has higher incidence of periprosthetic fracture	
	D)	Cemented fixation has a higher incidence of periprosthetic fracture	
86.	Optimal treatment to maximize functional outcome in both bone forearm fractures in adults to restore length, rotation, alignement and interosseous space is		
	A)	Long arm cast	
	B)	Closed reduction with percutaneous intramedullary fixation of both fractures	
	C)	Open reduction and internal fixation with plates for both bones	
	D)	Open reduction plate fixation for ulnar fracture with percutaneous intramedullary fixation of the radial fracture	
87.	Which of the following is the most common complication following operative management of a recurrent disc herniation?		
	A)	Different level rehemiation	
	B)	Dural tear	
	C)	Postoperative infection	
	D)	Permanent nerve injury	
88.	Which of the following is a critical step during the reoperative phase of secondary bone healing?		
	A)	Primary osteonal remodelling	
	B)	Restoration of medullary canla	
	C)	Soft callus formation	

84. Which of the following laboratory values would be consistent with nutritional rickets?

A) Increased calcium level

Formation of fracture hematoma

- 89. Traditional mechanical axis total knee arthroplasty involves which of the following?
 - Restoring the hip-knee-ankle axis to pass through 62% coordinate of the knee as measured from medial to lateral on the tibia
 - Placement of the femoral implant parallel to the transepicondylar axis in proper flexion and with appropriate extension space balancing
 - Performing the distal femoral resection perpendicular to the anatomic axis of the femur
 - Cutting the tibia into 3 degrees on natural varus in order to preserve the native joint line and cutting the femur in 9 degrees of valgus
- 90. What is Pellegrini Stieda lesion seen around the knee?
 - A) Calcification at femoral attachment of medial collateral ligament
 - B) Calcification at femoral attachment of lateral collateral ligament
 - C) Femoral avulsion of medial collateral ligament
 - D) Femoral avulsion of lateral collateral ligament
- 91. Which of the following would be the ideal impalnt for revision of a mechanically failed intramedullary fixation of intertrochanteric fracture?
 - A) Revision cephalomedullary nail
 - B) Locking proximal fermoral plate
 - C) Sliding hip screw
 - D) Angled blade plate
- 92. Bone is biomechanically weakest to resistance of which of the following forces?
 - A) Tension
 - B) Compression
 - C) Shear
 - D) Centrifugal
- 93. Which of the following is considered a trauma related risk factor for radio-ulnar stenosis?
 - A) Galeazzi fracture
 - B) Chest trauma
 - C) Fractures of the radius and ulna at different levels
 - D) Comminuted fracture of radius and ulna

- 94. Which of the following radiographic charecteristics helps distinguish between tuberculosis from pyogenic spinal infections?
 - Tuberculosis spinal infection is generally not associated with bone collapse and spinal deformity
 - B) The disc is relatively resistant to tuberculosis infection and often preserved untill late in the infectious process despite extensive bone destruction
 - Presence of instrumented spinal fusion is a common risk factor of tuberculosis spinal infection
 - Isolated anterior column involvement is extremely rare for a tuberculosis spinal infection
- 95. Milking maneuver for integrity of ulnar collateral ligament of the elbow includes all the below steps except:
 - A) Forearm supinated fully
 - B) Elbow flexed beyond 90 degrees
 - Thumb is pulled laterally producing a valgus force on the elbow
 - D) The patient then resistes supination of forearm and flexion of elbow
- 96. Which amongst the following skeletal conditions is not typically of patients with Down's syndrome?
 - A) Hypoplasia of the middle phalanx and clinodctyly of small fingers
 - B) Hypermobility of joints
 - C) Atlantoaxial instability
 - D) Kyphoscoliosis
- 97. Intra-articular injection of corticosteroids is a risk for which of the following if operative treatment is planned within 3 months?
 - A) Intra-operative periprosthetic fracture
 - B) Prolonged length of hospital stay
 - C) Dislocation/instability
 - D) Infection
- 98. All of the following are common sites for Glant cell tumor of bone except
 - A) Posterior elements of spine
 - B) Sacrum
 - C) Distal radius
 - D) Proximal tibia

- 99. A 72 year old male presents with an unstable inter-trochanteric hip fracture. When considering fixation constructs for this patinet's injury, arthroplasty would be recommended to prevent which of the following complications associated with fixation using a sephalomedullary nail?
 - A) Deep venous thrombosis
 - B) Excessive shortening
 - C) Increased blood loss
 - D) Higher mortality risk
- 100. A 70 year old female presents with severe lumbar stenosis undergoes an L4-S1 laminectomy. She does well and improves. However, 6 months post operatively she starts to develop similar symptoms. Examination reveals a well-healed incision. Which of the following is the appropriate next step?
 - A) Refer to physical therapist
 - B) Pain management and epidural injections
 - C) Magnetic resonance imaging (MRI) with and without contrast
 - D) Computed tomography scanning

ROUGH WORK

ROUGH WORK

(72) (A) (24

Booklet Serial No. 213235

Test Booklet Series

TEST BOOKLET DERMATOLOGY VENEREOLOGY AND LEPROSY



Written Test - 2023

(61)

Time Allowed: Two Hours

Maximum Marks: 100

INSTRUCTIONS

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
- You have to enter your Roll Number on the Test Booklet in the Box provided alongside.

DO NOT write anything else on the Test Booklet.

- 4. This Test booklet contains 100 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
- 6. All items carry equal marks.
- Before you proceed to mark in the Answer /Response Sheet, the response to various items in the
 Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions
 sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer/Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- 9. Sheets for rough work are appended in the Test Booklet at the end.
- While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- 11. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

(61) (A)/2023 [P.T.O.

SE RES

(61) (A)

1.	The on lo	treatment of choice in a patient who has developed gram negative folliculitis while ong term azithromycin for acne is:
	A)	Ciprofloxacin
	B)	Amoxicillin + clavulanic acid
	C)	Dapsone
	D)	Isotretinoin
2.	year on th	year-old women who gave history of severe colicky abdominal pain for the last 3 is for which she was self-injecting developed very indurated unevenly thickened plaques the shins and dorsal aspect of feet. At several places the plaques had ulcerated The it likely diagnosis in her is:
	A)	Erythema induratum
	B)	Erythema nodosum
	C)	Pentazocine induced ulcers
	D)	Pancreatitis induced panniculitis
3.	The	index of UPF is related to:
	A)	Sun protection of organic sunscreens
	B)	Sun protection of inorganic sunscreens
	C)	Sun protection of clothing
	D)	Sun protection of clothes
4.	Ac	ommon prototype of a lenitive is:
	A)	Lotio calamine
	B)	Aluminium acetate
	C)	Aluminium chloride
	D)	Potassium hydroxide
5.	Ven	atral pterygium is seen in
	A)	Lichen planus
	B)	Lichenoid eruption
	C)	Psoriasis
	D)	Raynauds phenomenon
6.	Chr	ronic telogen effluvium is characterized by:
	A)	Anagen: telogen ratio of 8:1
	B)	Anagen: telogen ratio of 14:1
	C)	Terminal hair: vellus hair ratio of 8:1
	D)	Terminal hair: vellus hair ratio of 1.8:1
(61) (A)	(3) [P.T.O.

7.	Cra	nial nerves involved with Meischer's cheilitis include all except:			
	A)	Facial nerve			
	B)	Optic nerve			
	C)	Olfactory nerve			
	D)	Auditory nerve			
8.	plac	0-year-old male patient presents with a 7-year history of indolent erythematous glazed que on the glans. Biopsy revealed lozenge shaped keratinocytes. The most likely gnosis in him is:			
	A)	Erythroplasia of Queryat			
	B)	Fixed drug eruption			
	C)	Plasma cell balanitis			
	D)	Psoriasis			
9.	plac	A woman in 3 rd trimester of pregnancy presents with an extremely itchy rash of urticated plaques on the trunk, typically sparing the umbilicus. The effect this dermatosis would have on her fetus:			
	A)	No effect			
	B)	New born will have a bullous cruption			
	C)	New born will have heart block.			
	D)	Premature birth			
10.		The most frequently used tool for assessing quality of life impairments in dermatology patients is			
	A)	Skindex			
	B)	Dermatology life quality index			
	C)	Dermatology QOL scale			
	D)	Dermatology specific QOL instrument			
(61)	(A)	(4)			

11.		levels of which enzyme predict increased susceptibility to myelosuppression of hioprine:				
	A)	Low levels of G6PD				
	B)	Low levels of TPMT				
	C)	High levels of TPMT				
	D)	High levels of G6PD				
12.	The	drug which is orally effective in treatment of post kala azar dermal leishmaniasis is:				
	A)	Potassium antimony tartarate				
	B)	Liposomal amphotericin				
	C)	Miltofosine				
	D)	Albendazole				
13.	Ara	A rare but serious side effect with use of high doses of clofazimine is				
	A)	Pulmonary interstitial fibrosis				
	B)	Eosinophilic enteritis				
	C)	Lobular hepatitis				
	D)	Necrotizing pancreatitis				
14.	The	amount of potassium iodide required to make a saturated solution is approximately:				
	A)	200g/100mL				
	B)	100g/100 mL				
	C)	50g/100 mL				
	D)	75g/100mL				
15.	The	The duration of contraception advised in females taking acitretin is:				
	A)	1 month after stoppage of therapy				
	B)	3 months after stoppage of therapy				
	C)	12 months after stoppage of therapy				
	D)	24 months after stoppage of therapy				

16.	Laser most suitable for treating a vascular malformation in a child is				
	A)	585nm pulse dye laser			
	B)	595 nm pulse dye laser			
	C)	Carbon di oxide laser			
	D)	IPL			
17.	Las	Laser most suited for epilation in patients with pigmented skin is			
	A)	1064 nm Nd:YAG with cooling device			
	B)	595 nm pulse dye laser			
	C)	Diode laser			
	D)	IPL			
18.	Laser most suitable for treating nevus of Ota is:				
	A)	Q switched Nd:YAG laser			
	B)	595 nm pulse dye laser			
	C)	Q switched ruby laser			
	D)	IPL			
19.	The	laser most suitable for removing green pigment of a tattoo			
	A)	Q switched Nd:YAG laser			
	B)	595 nm pulse dye laser			
	C)	Q switched ruby laser			
	D)	IPL			
20.	An important side effect of topical EMLA in children is:				
	A)	Allergic dermatitis			
	B)	Anaphylaxis			
	C)	Irritant dermatitis			

Methhemoglobinemia

21. Efforinithine is a

- A) Reversible inhibitor of ornithine decarboxylase
- B) Irreversible inhibitor of ornithine decarboxylase
- C) Reversible blocker of tyrosinase
- D) Reversible blocker of tyrosinase

22. Fournier's gangrene is:

- A) Necrotizing fasciitis of the genitalia
- B) Eosinophilic fasciitis of the genitalia
- C) Cellulitis of the genitalia
- Vascular occlusion syndrome

23. Trachyonychia in children is characterized by:

- A) Roughened nails with onycholysis
- B) Roughened surface of nail with thickening
- Roughened surface of the nail with discoloration
- Self-limiting roughening of the nail

24. Uncombable hair syndrome is characterized by:

- A) Pili trianguli et canalculi
- B) Pili trianguli
- C) Pili canalculi
- D) Pili torti

25. Conditioners are based on:

- A) Cationic chemicals
- B) Anionic chemicals
- C) Amphoteric chemicals
- D) Neutral chemicals

A) B) C) D)	1-2 g 0.1-0.2 g 0.4-0.5 g
C) D)	
D)	0.4-0.5 g
- 15 - 15	
22) (20%)	0.7-0.8 g
27. In n	ail patella syndrome the digit nail most severely affected is:
A)	Little finger
B)	Ring finger
C)	Middle finger
D)	Thumb
28. In pa	achyonychia congenita the defect involves:
A)	Keratin gene
B)	MHC class I gene
C)	MHC class II gene
D)	PSOR gene
29. In G	raham Little syndrome the findings in scalp include:
A)	Non scarring alopecia
B)	Cicatricial alopecia
C)	Frontal sclerosing alopecia
D)	Tufted folliculitis
30. Ami	iddleaged patient complains of a very tender, ulcerated nodule over the helix. The t likely diagnosis in him is:
A)	Multicentric histiocytosis
B)	Calcification of the pinna
C)	Chondrodermatitis nodularis
D)	Solar keratosis
31. Majo	or criteria of Behcets syndrome include:
A)	Recurrent painful genital ulcers, erythema nodosum, pathergy test,
B)	Recurrent aphthous stomatitis, arthralgia, thrombophlebitis
	Recurrent genital ulcer, aneurysms, hematuria
C)	

32.	Ade	quate quantity of sunscreen applied over skin is:
	A)	1mg/cm ²
	B)	2mg/cm ²
	C)	4mg/cm ²
	D)	6mg/cm ²
33.	Icht	hammol is a
	A)	Wood tar
	B)	Coal tar
	C)	Shaletar
	D)	Synthetic tar
34.	Sun	screen useful in porphyrias is:
	A)	Dibenzoyl methane
	B)	Cinnamates
	C)	Salicylates
	D)	PABA
35.	The	depilatory most frequently used to remove facial hair is
	A)	Strontium sulphide
	B)	Barium sulphide
	C)	Thioglycollic acid
	D)	Substituted mercaptans
36.	The	most effective emollient is:
	A)	Coconut oil
	B)	Cream containing tocopherol
	C)	White soft paraffin
	D)	Olive oil
37.	Ecz	ema herpeticum is caused by
	A)	Herpes simplex virus
	B)	Varicella zoster virus
	C)	Vaccinia virus
	D)	All of the above

38.	"SI	apped cheek" appearance is characteristic of			
	A)	Kawasaki disease			
	B)	Erythema infectiosum			
	C)	Chikungunya			
	D)	Rubella			
39.	The	following photosensitive disorder occurs more frequently in men			
	A)	Polymorphous light eruption			
	B)	Actnic prurigo			
	C)	Solar urticaria			
	D)	Chronic actinic dermatitis			
40.	Imr	nediate tanning of irradiated skin is mediated by the following wave band			
	A)	UV-A			
	B)	UV-B			
	C)	UV-C			
	D)	Visible light			
41.	The	recommended initial treatment for frostbite is :			
	A)	Rapid rewarming in very hot water			
	B)	Rapid rewarming in warm water			
	C)	Slow rewarming			
	D)	Rubbing the affected part with snow or ice			
42.	Primary Raynaud's phenomenon is associated with:				
	A)	Cold intolerance since childhood			
	B)	Nailfold telengiectasias			
	C)	Presence of antinuclear antibody			
	D)	Asymmetrical involvement of upper limbs			
43.	Dur	ing gestation, eccrine glands develop earliest at the following site:			
	A)	Scalp			
	B)	Axilla			
	C)	Palm			
	D)	Abdomen			
44.	Epidermal stem cells are located in the:				
	A)	Basal layer			
	B)	Follicular bulge			
	C)	Follicular matrix			
	D)	Eccrine duct			
(61)	(A)	(10)			

(61)	(A)	(11)	[P.T.O.			
	D)	Variegate porphyria				
	C)	Porphyria cutanea tarda Variausta porphyria				
	B)	Erythropoietic protoporphyria				
	A)	Congenital erythropoietic porphyria				
50.		Porphyrins are absent in urine in the following type of porphyria				
	D)	Porphyrin				
	C)	Salicylanilide				
	B)	Furocoumarin				
	A)	Pyocyanin				
49.		The coral pink fluorescence of erythrasma under Wood's light is due to the presence of				
	D)	Stratum basale				
	C)	Stratum spinosum				
	B)	Stratum granulosum				
	A)	Stratum corneum				
48.		Cholesterol sulfate is maximally present in the following layer of the epidermis				
	D)	Stratum basale				
	C)	Stratum spinosum				
	B)	Stratum granulosum				
47.	A)	 barrier function of the epidermis is served by the following la Stratum corneum 	iyer:			
47.	The	Sharring Comprises of the section of				
	D)	Melanocytes				
	C)	Mast cells				
	B)	Merkel cells				
	A)	Langerhans cells				
46.	Ra	Racquet shaped granules are an ultramicroscopic feature of				
	D)	Stratum basale				
	C)	Stratum spinosum				
	B)	Stratum granulosum				
	A)	Stratum corneum				
45.	Ch	olesterol biosynthesis in the epidermis occurs predominantly	in the following layer			

51.	The	Alcian blue stain is used to identify the following component in the skin				
	A)	Glycogen				
	B)	Mucopolysaccharide				
	C)	Elastin				
	D)	Calcium				
52.		The immunohistochemical marker used to identify cells showing histiocytic differentiation is				
	A)	CD3				
	B)	CD20				
	C)	CD31				
	D)	CD68				
53.		The histopathological finding of a thickened basement membrane on skin biopsy is a feature of				
	A)	Sjogrens syndrome				
	B)	Systemic sclerosis				
	C)	Dermatomyositis				
	D)	Generalised morphea				
54.	Trai	Fransverse sectioning of skin biopsies is a useful technique for the evaluation of				
	A)	Alopecias				
	B)	Granulomatous disorders				
	C)	Panniculitis				
	D)	Skin appendageal tumours				
55.	Tha	Thalidomide is contraindicated in the treatment of				
	A)	Lichen planus hypertrophicus				
	B)	Erythema elevatum divtinum				
	C)	Epidermolyses bullosa simplex				
	D)	Toxic epidermal necrolysis				
56.	Inp	In patients who have NSAID induced urticaria, the following NSAID can be used safely				
	A)	Ibuprofen				
	B)	Acetyl salicylic acid				
	C)	Naproxen				
	D)	Etoricoxib				
(61)	(A)	(12)				

57.	Th	The mechanism of action of mycophenolate mofetil as an immunosuppressive agent is very similar to that of				
	A)					
	B)					
	C)					
	D)					
58.	The	e most reliable test for suspected food allergy is				
	A)					
	B)	Skin prick tests				
	C)					
	D)	**************************************				
59.	In i	mmunodeficiency disorders, candidiasis is associated with defects in the function of				
	A)	T cells				
	B)	B cells				
	C)	Neutrophils				
	D)	Complement				
60.	Ant	Anti C1q antibodies are a feature of the following type of vasculitis:				
	A)	Henoch Schonlein purpura				
	B)	Hypocomplementemic urticarial vasculitis				
	C)	Churg Strauss syndrome				
	D)	Wegener's granulomatosis				
61.	Ster	Sterile maggots of the following fly are used for debridement of wounds				
	A)	Blowfly				
	B)	Tumbu fly				
	C)	Green bottle fly				
	D)	Flesh fly				
62.		Lines of Blaschko represent the distribution of				
	A)	Nerve supply				
		Lymphatic channels				
		Blood supply				
	D)	Developmental growth pattern				
63.	The new	The proportion of patients with neurofibromatosis who represent sporadic cases due to new mutations is				
	A)	25%				
	B)	50%				
	C)	75%				
	D)	>90%				
(61)	100	(12) IPTO				

		of the state of th			
64.		tiple sebaceous tumors are a feature of			
	A)	Gardner's syndrome			
	B)	Cowden's syndrome			
	C)	Muir-Torre syndrome			
	D)	Turcot's syndrome			
65.	Reticulate pigmentation, nail dystrophy and oral leukoplakia are features of the following syndrome				
	A)	Dyskeratosis congenita			
	B)	Rothmund Thompson syndrome			
	C)	Cockayne syndrome			
	D)	Bloom syndrome			
66.	Dystrophic epidermolysis bullosa is caused by mutations in the following gene				
	A)	Laminin 5 gene			
	B)	Plectin gene			
	C)	Type VII collagen gene			
	D)	Keratin K14 gene			
67.	The histopathological appearance of subcutaneous fat necrosis of the newborn closely resembles that seen in				
	A)	Post steroid panniculitis			
	B)	Erythema induratum			
	C)	Lipodermatosclerosis			
	D)	Lupus panniculitis			
68.	Localised scarring of a limb associated with hypoplasia is a feature of				
	A)	Antenatal exposure to methimazole			
	B)	Fetal varicella syndrome			
	C)	Congenital polychlorinated biphenyl (PCB) poisoning			
	D)	Intrauterine toxoplasmosis			
69.		kin biopsy from an epidermal nevus revealed vacuolar degeneration of keratinocytes ne granular layer and the underlying cells of the spinous layer. The most likely diagnosis			

A)

B)

C)

D)

Linear Darier's disease

Linear porokeratosis

Linear Hailey-Hailey disease

Linear epidermolytic hyperkeratosis

70.	All	All of the following are complications of infantile hemangiomas except					
	A)	Ulceration					
	B)	Infection					
	C)	Malignant change					
	D)	Heart failure					
71.	Fla	Flash lamp pumped pulsed dye laser is effective in the treatment of					
	A)	Port wine stain					
	B)	Infantile hemangioma					
	C)	Tufted angioma					
	D)	Cavernous hemangioma					
72.		Elevated IgE levels in the blood are seen in the following proportion of patients with atopic dermatitis					
	A)	<10%					
	B)	40%					
	C)	80%					
	D)	>90%					
73.	sup	A 29-year-old man developed erythema followed by hyperpigmented scaling with superficial fissuring strictly beneath his vest, following a long train journey in summer. The likely diagnosis is					
	A)	Detergent dermatitis					
	B)	Clothing dermatitis					
	C)	Frictional sweat dermatitis					
	D)	Miliaria rubra					
74.	Alle	Allergic contact dermatitis to the following metal is commoner in men than in women.					
	A)	Nickel					
	B)	Cobalt					
	C)	Chromium					
	D)	Gold					
75.	The	The depigmenting agent in "bindi" adhesive is					
	A)	Hydroquinone					
	B)	Monobenzyl ether of hydroquinone					
	C)	Paratertiary butyl phenol					
	D)	Paratertiary butyl catechol					

- 76. A 25-year-old man presented with the sudden onset of black macules on his feet over a few days. Biopsy revealed a yellowish-brown material in the stratum corneum. The likely diagnosis is:
 - A) Black piedra
 - B) Tinea nigra
 - C) Black heel
 - D) Argyria
- 77. The following acids have been used in chemopeeling except
 - A) Carboxylic acid
 - B) Phosphoric acid
 - C) Kojic acid
 - D) Trichloroacetic acid
- 78. An 18-year old female presented with pigmentation of acne scars. She had been treated with various antibiotics like tetracyclines, doxycycline, minocycline and azithromycin. The antibiotic most likely to have caused the pigmentation is:
 - A) Tetracycline
 - B) Doxycycline
 - C) Minocycline
 - D) Azithromycin
- 79. A 33-year-old house wife presented with whitish lacey streaks on the tongue associated with prolongation of the proximal nail fold on to nail beD) The most likely diagnosis in him is:
 - A) Leukoplakia
 - B) Geographic tongue
 - C) Lichen planus
 - D) Oral candidiasis with paronychia
- 80. A 34-year-old patient presented with cicatricial alopecia on the scalp. The area of alopecia showed perifollicular grey pigmentation. The commonest association in such a patient will be:
 - A) Discoid annular plaques on the face and ears
 - B) White streaks in buccal mucosa
 - C) Nail pitting
 - D) Arthropathy
- 81. The following condition is characterized by pseudoisomorphic phenomenon:
 - A) Vitiligo
 - B) Lichen planus
 - C) Psoriasis
 - D) Plane warts

82.	A 32-year-old farmer presented with single indurated verrucous plaque on the foot. The most likely diagnosis in her is:				
	A)	Tuberculosis verrucosa cutis			
	B)	Mycetoma			
	C)	Verruca vulgaris			
	D)	Lichen planus hypertrophicus			

- 83. Which of the following absorbable suture is not a monofilament suture?
 - A) Polyglyconate
 - B) Polyglycolic acid
 - C) Polyglecaprone
 - D) Polyglytone
- 84. Baker and Gorden peel contain:
 - A) 55% phenol
 - B) 40% TCA
 - C) 35% Phenol
 - D) 60% Salicylic acid
- 85. Which one is wrong about TRT (Thermal Relaxation Time)?
 - A) It is time taken for target to dissipate 63% of the incident thermal energy
 - B) It is related to size of the target chromophore
 - It is longer then TDT (Thermal Damage Time)
 - TRT of melanosomes is 0.5-1 us
- 86. Which one of the vascular laser do not target deeper vessels?
 - A) KTP 532nm laser
 - B) PDL 585-600nm
 - C) Frequency doubled Nd: YAG laser
 - D) Alexandrite laser
- 87. Which one is false regarding pigment laser?
 - A) Q switched NdYAG laser target for deeper dermal pigment
 - B) Er-YAG laser is preferable for Becker's melanoses
 - Green Ink tattoo responds best to Q switched ruby while red pigment to Qswitched alexandrite
 - Amateur tattoo responds poorly then other pigmented tatoos
- 88. Which stage of hair follicle is most susceptible to damage by laser energy?
 - A) Anagen
 - B) Catagen
 - C) Telogen
 - D) Equal in all stages

- 89. In comparison of CO2 & Er-YAG laser which one is true? Er-YAG laser: less affinity to water compared to CO2 Er-YAG laser: more thermal damage B) Er- YAG laser: less effective hemostasis C) Er-YAG laser: more scarring D) 90. Which of following match is wrong? Diameter of micro thermal zone: 10nm A) Ablative CO2 laser: 10600nm B) Ablative Er YAG laser: 1540nm C) Non ablative diode: 1450nm D) 91. Most commonly used spectrum of light in photodynamic therapy: 410-450nm A) 510-535nm B) 630-635nm C) D) 520-590nm Scarring will be minimised by putting incision site: Parallel to contraction of underlying muscle Perpendicular to dermal collagen bundle B) Parallel to Langer's line C) Perpendicular to related skin tension line D) 93. Facial nerve block does not involve which nerve: Supra orbital A) B) Supra trochlear Infra orbital C) Mental nerve D) Which combination statement of (1-4) is correct? Excision above eyebrow should be closed horizontally to prevent eyebrow lift 1. Excision above eyebrow should be closed vertically to prevent eyebrow lift 2. Risk of ectropion is decreased by horizontal closure of infra orbital area 3. Risk of ectropion is decreased by vertical closure of infra orbital area 4. 1.3 A) 1.4 B) 2.4 C) D) 2.3
 - 95. Ofuji disease has been seen in association with which of the following drugs?
 - A) Azathioprine
 - B) Dantrolene
 - C) Lithium
 - D) Indeloxamine HCL

96.	W	Which of the following drug do not have any effect on sperm counts?					
	A)	Methotrexate					
	B)	Colchicine					
	C)	Sulfasalazine					
	D)	Isotretinoin					
97.	Which of the following is not an example of delayed toxicity?						
	A)	Discolouration due to mercury intake					
	B)	Hepatotoxicity due to Methotrexate					
	C)	Keratosis due to arsenic					
	D)	None					
98.		PD deficient individual are susceptible to hemolysis by all of the following drugs ept:					
	A)	Dapsone					
	B)	Aspirin					
	C)	Chloramphenicol					
	D)	Penicillin					
99.		Which of the following drug causes pigmentation of tongue as a manifestation of fixed drug eruption?					
	A)	Heroin					
	B)	Mercury					
	C)	Gold					
	D)	Penicillamine					
100.	Periorbital leucoderma is known to be caused by which of the following drug?						
		Thiotepa					
	B)	Cisplatin					
	C)	Phenobarbitone					
	D)	Surfasalazine					

ROUGH WORK

(61) (A) (C

Booklet Serial No. 213441

Test Booklet Series

TEST BOOKLET EPIDEMOLOGIST/ASSISTANT PROFESSOR COMMUNITY MEDICINE



Written Test - 2023

(63)

Time Allowed: Two Hours

Maximum Marks: 100

INSTRUCTIONS

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
- You have to enter your Roll Number on the Test Booklet in the Box provided alongside.

DO NOT write anything else on the Test Booklet.

- 4. This Test booklet contains 100 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
- 6. All items carry equal marks.
- Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer /Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- 9. Sheets for rough work are appended in the Test Booklet at the end.
- While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- 11. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

(63) (A)/2023 [P.T.O.

CABBES

(63) (A)

- The average growth of a certain variety of pine tree is 10.1 inches in three years. A
 biologist claims that a new variety will have a greater three-year growth. A random sample
 of 25 of the new variety has an average three-year growth of 10.8 inches and a standard
 deviation of 2.1 inches. The appropriate null and alternate hypotheses to test the biologist's
 claim are:
 - A) Ho:μ=10.l against Ha:μ>10.l
 - B) Ho:μ=10.8 against Ha:μ≠10.8
 - C) Ho:μ=10.8 against Ha:μ>10.8
 - D) Ho:μ=10.1 against Ha:μ<10.</p>
- In the definition of epidemiology, "determinants" generally includes all EXCEPT:
 - A) Agents
 - B) Causes
 - C) Control measures
 - D) Risk factors
- Epidemiology, would include all of the following activities EXCEPT?
 - Describing the demographic characteristics of persons with acute aflatoxin poisoning in District A
 - Prescribing an antibiotic to treat a patient with community-acquired methicillinresistant Staphylococcus aureus infection
 - Comparing the family history, amount of exercise, and eating habits of those with and without newly diagnosed diabetes
 - Recommending that a restaurant be closed after implicating it as the source of a hepatitis A outbreak
- 4. John Snow's investigation of cholera is considered a model for epidemiologic field investigations because it included all of the following EXCEPT:
 - A) Biologically plausible hypothesis
 - B) Comparison of a health outcome among exposed and unexposed groups
 - C) Multivariate statistical model
 - D) Spot map
- Which of the following activities is NOT included in Public health surveillance:
 - A) Diagnosing whether a case of encephalitis is actually due to West Nile virus infection
 - Soliciting case reports of persons with symptoms compatible with SARs from local hospitals
 - Creating graphs of the number of dog bites by week and neighborhood
 - Writing a report on trends in seat belt use to share with the state legislature

- 6. The hallmark feature of an analytic epidemiologic study is:
 - Use of an appropriate comparison group
 - B) Laboratory confirmation of the diagnosis
 - Publication in a peer-reviewed journal
 - D) Statistical analysis using logistic regression
- 7. A number of passengers on a cruise ship from Goa to Kanya Kumari have recently developed a gastrointestinal illness compatible with norovirus (formerly called Norwalk-like virus). Testing for norovirus is not readily available in any nearby island, and the test takes several days even where available. Assuming you are the epidemiologist called on to board the ship and investigate this possible outbreak, your case definition should include, at a minimum: (Choose one best answer)
 - A) Clinical criteria, plus specification of time, place, and person
 - B) Clinical features, plus the exposure(s) you most suspect
 - C) Suspect cases
 - D) The nationally agreed standard case definition for disease reporting
- 8. Comparing numbers and rates of illness in a community, rates are preferred for:
 - A) Conducting surveillance for communicable diseases
 - B) Deciding how many doses of immune globulin are needed
 - Estimating subgroups at highest risk
 - D) Telling physicians which strain of influenza is most prevalent
- When analysing surveillance data by age, which of the following age groups is preferred? (Choose one best answer)
 - A) 1-year age groups
 - B) 5-year age groups
 - C) 10-year age groups
 - D) Depends on the disease
- 10. Which of the following is NOT correct?
 - A) The rejection region is controlled by the α and the alternative hypothesis
 - B) The p-value measures the probability that the null hypothesis is true
 - The power of a test depends upon the sample size and the distance between the null hypothesis and the alternative hypothesis
 - The probability of a type II error is controlled by the sample size n

11.	The Iowa Women's Health Study, in which researchers enrolled 41,837 women in 1986 and collected exposure and lifestyle information to assess the relationship between these factors and subsequent occurrence of cancer, is an example of which type(s) of study?							
	A)	Experimental	4					
	B)	Cohort						
	C)	Case-control						
	D)	Clinical trial						
12.	British investigators conducted a study to compare measles-mumps-rubella (MMR) vaccine history among 1,294 children with pervasive development disorder (e.g., autism and Asperger's syndrome) and 4,469 children without such disorders. (They found no association.) This is an example of which type(s) of study?							
	A)	Experimental						
	B)	Cohort						
	C)	Case-control						
	D)	Clinical trial						
13.	Ac	A cohort study differs from a case-control study in that:						
	A)	 Subjects are enrolled or categorized on the basis of their exposure status in a case-control study 						
	B)	Subjects are asked about their exposure scontrol study	status in a cohort study but r	not in a case-				
	C)	Cohort studies require many years to cor	iduct, but case-control studi	es do not				
	D)	Cohort studies are conducted to investigate used for infectious diseases	ite chronic diseases, case-co	ntrol studies				
14.	Wh	Which one of the following is NOT a Key feature of a cross-sectional study:						
	A)	It usually provides information on preval	ence rather than incidence					
	B)	It is limited to health exposures and beha	viors rather than health outc	omes				
	C)	It is more useful for descriptive epidemic	logy than it is for analytic ep	pidemiology				
(63)	(A)	It is synonymous with survey (5)		[P.T.O.				

- 15. The following are percentages of fat found in 5 samples of each of two brands of baby food: A: 5.7, 4.5, 6.2, 6.3, 7.3; B: 6.3, 5.7, 5.9, 6.4, 5.1 Which of the following procedures is appropriate to test the hypothesis of equal average fat content in the two types of ice cream?
 - A) Paired t-test with 5 d.f
 - B) Paired t-test with 4 d.f
 - C) Two sample t-test with 9 d.f
 - D) Two sample t-test with 8 d.f
- 16. Indirect transmission does NOT include which of the following?
 - A) Droplet spread
 - B) Mosquito-borne
 - C) Foodborne
 - D) Doorknobs or toilet seats
- 17. Disease control measures are generally directed at all of the following EXCEPT?
 - A) Eliminating the reservoir
 - B) Eliminating the vector
 - C) Eliminating the host
 - Interrupting mode of transmission
- 18. A propagated epidemic is usually the result of what type of exposure?
 - A) Point source
 - B) Continuous common source
 - C) Intermittent common source
 - D) Person-to-person
- 19. 1-α is defined as
 - A) Probability of not rejecting HO when HO is true
 - B) Probability of rejecting HO when H l is true
 - Probability of not rejecting HO when H1 is true
 - D) Probability of rejecting HO when HO is true
- Sentinel surveillance indicates
 - A) Identifying the missing cases
 - B) Identifying high risk group
 - C) Surveillance of water population
 - D) Surveillance of environmental control

21.	Ode	is ratio is calculated in	5				
	A)	Case control study					
	B)	Cross sectional study					
	C)	Cohort study					
	D)	Randomized trial					
22.	Pre	vention of emergence or development of	of risk factors	is type of			
	A)	Primary prevention					
	B)	Secondary prevention					
	C)	Tertiary prevention					
	D)	Primordial prevention					
23.	Which of the following statements is correct						
	A)	A large p-value indicates that the data	is consistent w	ith the alterna	tive hypothesis		
	B)	An extremely small p-value indicates from the expected if the null hypothe		data is differe	nt significantly		
	C)	The p-value measures the probability	of making a Ty	pe II error			
	D)	The larger the p-value, the stronger the	e evidence aga	inst the null hy	pothesis		
24.	In statistical hypothesis test of equality of means, such as H0: μ =10, if α = 5%						
	A)	5% of the time we will say that there is	no real differe	nce when there	is a difference		
	B)	95% of the time the null hypothesis w	vill be correct				
	C)	95% of the time we will make an inco	orrect inference	2			
	D)	5% of the time we will say that there is	a real differen	ce when there	s no difference		
25.	Level of resistance of a community or group of people to a particular disease is						
	A)	Passive immunity					
	B)	Active immunity					
	C)	Herd immunity					
	D)	Mixed immunity					
(63)	(4)	(7)			IP.T.O.		

26.	Firs	st step of epidemic investigation?	73.00				и.,
	A)	Preparing case definition					
	B)	Mapping the epidemic		3			
	C)	Confirmation		3			-
	D)	Searching for the cases					
27.	An	abstract of the journal article doesn't contain					
	A)	Methodologies					
	B)	Result					
	C)	Objectives					
	D)	Ethical consideration					
28.	Vari	iance is:					
	A)	Half of SD					
	B)	Square root of SD					
	C)	Square of SD					
	D)	Twice of SD					
29.	Nor	mal curve is					
	A)	S shaped					
	B)	Parabolic					
	C)	Hyperbolic					
	D)	Bell shaped					
30.	The level of significance α denotes:						
	A)	Probability of rejecting a true hypothesis					
	B)	Probability of accepting a true hypothesis					
	C)	Significance of result					
	D)	Confidence limit					
31.	When there is perfect positive correction between two variables then what is the value of r (Karl people's correlation coefficient):						
	A)	1					
	B)	-1					
	C) D)	0 Between 0 and 1					
	-1	27721.1572711.37 31937. E.:					
(63)	(A)	(8)					

- 32. Which empirical relation is correct?
 - A) Mode = 3 median-2 mean
 - B) Mode = 2 mean -3 median
 - C) Mean = 3 median-2 mode
 - D) Mean = 2 mode -3 median
- 33. The mean BP of a group of persons was determined and after an intervention trial the mean BP was estimated again. The test to be applied to determine the significance of intervention is:
 - A) Chi square test
 - B) Paired t test
 - C) Correlation coefficient
 - D) z test ·
- 34. Cholesterol levels are measured on a random sample of 1,000 persons, and the sample standard deviation is calculated. Suppose a second survey were repeated in the same population, but the sample size tripled to 3,000. Then which of the following is true?
 - A) The new sample standard deviation would tend to be smaller than the first and approximately about one-third the size.
 - B) The new sample standard deviation would tend to be larger than the first and approximately about three times the size.
 - C) The new sample standard deviation would tend to be larger than the first, but we cannot approximate by how much.
 - D) None of the above is true because there is no reason to believe one standard deviation would tend to be larger than the other.
- 35. Which of the following is unrelated to the chi square test of significance?
 - A) Degree of freedom
 - B) Life table
 - C) Significance level
 - D) Qualitative data
- 36. Which is true of cluster sampling?
 - A) Every Nth case is chosen for study
 - B) Involves use of random numbers
 - C) A natural group is taken as sampling unit
 - Stratification of population is done
- 37. For a survey a village is divided into 5 lanes. Then each lane is sampled randomly. It is an example of:
 - A) Simple random sampling
 - B) Stratified random sampling
 - C) Systematic random sampling
 - Multi-phase random sampling

- 38. In a small observational study, 100 industrial workers are followed for one year to assess for the development of respiratory symptoms (defined as productive cough lasting at least one week). 30 of 60 smokers experience respiratory symptoms over the year versus 10 of 40 non-smokers. Which of the following is the best estimate of the attributable risk of respiratory disease in smokers?
 - A) 0.75
 - B) 0.50
 - C) 0.25
 - D) 0.30
- 39. Measurements on a (random) sample of babies born to mothers who took "Prescription Drug A" during pregnancy were compared to measurements on a (random) sample of babies born to mothers who did not take "Prescription Drug A". A statistically significant difference in the mean head circumference was found between children born to the two groups of mothers (p = .03). Based only on this information you can conclude:
 - A) There is a 3% chance the null hypothesis is true.
 - Taking "Prescription Drug A" during pregnancy causes a reduction in child's head circumference.
 - C) Taking "Prescription Drug A" is associated with an increased child head circumference.
 - D) None of the above.
- 40. Normal distribution curve depends upon
 - A) Mean and sample
 - B) Mean and median
 - Mean and standard deviation
 - Median and standard error
- 41. The truth about normal distribution curve is all EXCEPT
 - A) Mean median and mode all coincide
 - B) Standard deviation is one
 - Mean of the curve is hundred
 - The total area of the curve is one
- Confidence limit can be calculated by using
 - A) Mean and range
 - B) Mean and standard deviation
 - Median and range deviation
 - Median and standard deviation
- If probability of being Rh negative is 1/10 then probability of being Rh positive will be
 - A) 1/10
 - B) 9/10
 - C) ½
 - D) 1

44.	Sta	ndard error is measure of				
	A)	Conceptual error				
	B)	Sampling error				
	C)	Instrumental error				
	D)	Observer error				
45.	clin rela with to ti	ew chemotherapy regimen used in patients with ovarian carcinoma is tested in a small ical trial. Out of 50 patients treated with the new regimen, 25 survive 5 years without pse. Out of 100 patients treated with the conventional regimen, 25 survive 5 years nout relapse. How many patients need to be treated with the new regimen as opposed the conventional regimen in order for one more patient to survive 5 years without pse?				
	A)	2				
	B)	4				
	C)	6				
	D)	8				
46.	bety	ich of the following type of the diagrams can be used to find out the relationship ween two variables?				
	A)	Pictogram				
	B)	Bar diagram				
	C)	Histogram				
	D)	Scatter diagram				
47.		Which of the following is a discrete variable?				
	A)	Skin color				
	B)	Blood pressure				
	C) D)	Weight Boys in the class				
40						
48.	A)	Which of the following does not have sampling error A) Sample population				
	B)	Census				
	C)	Stratified sampling				
	D)	Systematic random sampling				
49.	Acc	epting null hypothesis when it is false is				
	A)	type I error				
	B)	type II error				
	C)	α error				
	D)	μ еггог				
50.	Mar	Married-unmarried, child-adult, male- female is				
	A)	Ordinal scale				
	B)	Interval scale				
	C)	Ratio scale				
	D)	Nominal scale				

51.	The common characteristic that both experimental and quasi-experimental sudy should possess is						
	A)	Manipulation					
	B)	Control groups					
	C)	Randomization					
	D)	None					
52.	Foc	us group discussion is the group discussion ofpersons.					
	A)	3-5					
	B)	6-12					
	C)	10-14					
	D)	15-20					
53.	A variable that is associated with problem as well as with a possible cause of the problem is						
	A)	Causative variable					
	B)	Confounding variable					
	C)	Dependent variable					
	D)	Independent variable					
54.	Whi	ch of the following is not the ethical principle for health and bio-medical researches?					
	A)	Beneficence					
	B)	Justice					
	C)	Informed consent					
	D)	Reliability					
55.		eserved changes in a group are due to the fact that it is being studied rather than due to erimentation, the effect is termed as Placebo effect Confounding Withdrawal effect Hawthorne effect					

56.	Val	idity of research findings denote:					
	A)	Consistency	1.75				
	B)	Relativity					
	C)	Accuracy					
	D)	Reliability					
57.	Obs	servation checklist is the of data collection					
	A)	Tool					
	B)	Method		9			
	C)	Manual					
	D)	Guideline					
58.	Wh	ich of the following is a description for 'descriptive epiden	niology'?				
97.	A)	Examining the incidence of disease in relation to person,		c			
	B)	Identifying the associations between disease and causes	•				
	C)	Intervention to change exposure to the factor being studie	ed				
	D)	Actions to reduce exposure to factors which impact on he					
59.		ich of the following studies might be carried out to help he	alth services p	olan future			
	A)	Cohort study					
	B)	Cross-sectional study					
	C)	Case-control study					
	D)	Community trail					
60.	Fna	bling people to increase control over their own health is kn	own as				
	A) Health protection						
		Public health					
		Health promotion					
	C) D)	Governance					
61.	floo four wer	nges river is a community of 100,000 persons in Uttarakhan and (2013) there were 1000 deaths from all causes. A study of and the number of deaths at 300 (200 males and 100 female only 60 deaths from Tuberculosis, 50 of them males. The ages River in 2013 was 300 per 100,000 60 per 1000	all cases of tu les). During 2	berculosis 2012 there			
	C)	10 per 1000					
	D)	100 per 11000					
		859					
(63)	(A)	(13)		[P.T.O.			

(13)

(63) (A)

- 62. A group of investigators conducts a study to evaluate the association between serum homocysteine level and the risk of myocardial infarction. They conclude that a high baseline plasma homocysteine level is associated with an increased risk of myocardial infarction and report a risk ratio (RR) of 1.08 and a p value of 0.01. Which of the following is the most accurate statement about the results of the study?
 - A) There is an 8% chance that increased homocysteine levels cause myocardial infarction
 - B) There is a 1% probability that there is no association
 - C) The 95% confidence interval for the RR includes 1.0
 - The study has insufficient power to reach a definite conclusion
- 63. All of the following are true of odds ratio EXCEPT
 - A) It is an estimate of relative risk
 - B) It is the only measure of risk that can be obtained directly from a case control study
 - It tends to be biased towards 1at high rates of disease
 - It is the ratio of incidence in exposed divided by incidence in non-exposed
- 64. The mode of transport of an infectious agent through the environment to a susceptible host is called a
 - A) Carrier
 - B) Reservoir
 - C) Vector
 - D) Vehicle
- 65. Which of the following is NOT a part of continuum of natural history of the disease?
 - A) Stage of Susceptibility
 - B) Stage of preclinical
 - C) Stage of prevention
 - D) Stage of recovery
- 66. High plasma C-reactive protein (CRP) level is believed to be associated with increased risk of acute coronary syndromes. A group of investigators is planning a study that would evaluate that association, taking into account a set of potential confounders. Which of the following is the best statement of null hypothesis for the study?
 - A) High plasma CRP level carries increased risk of acute coronary syndromes
 - B) High plasma CRP level is related to the occurrence of acute coronary syndromes
 - C) High plasma CRP level has no association with acute coronary syndrome
 - D) Acute coronary syndrome can be predicted by high plasma CRP

67.	Number of current cases (new and old) of specified disease identified over a given time interval from estimated population at mid interval is called;					
	A)	Prevalence				
	B)	Period Prevalence				
	C)	Point Prevalence				
	D)	Disease Prevalence				
68.	A st	ate of disorder that results from communication ONLY by direct contact is termed				
	A)	Infectious disease				
	B)	Contamination				
	C)	Epidemic				
	D)	Contagious disease				
69.	Sampling done on the basis of some pre-determined ideas and its result cannot be generalized is defined as follow;					
	A)	Snow ball sampling				
	B)	Purposive sampling				
	C)	Probability sampling				
	D)	Non-probability sampling				
70.	The most essential component of an effective Infection Prevention surveillance program is:					
	A)	The capability to monitor everything				
	B)	Collection of meaningful data				
	C)	Outbreak detection				
	D)	Complying with accreditation agencies				
71.	The 1,00 pair	945 there were 1,000 women who worked in a factory painting radium dial on watches, incidence of bone cancer in these women up to 1975 was compared with that of 00 women who worked as telephone operators in 1975. Twenty of the radium dial sters and four of the telephone operators developed bone cancer between 1945 and 5. This study is an example of a:				
	A)	Experimental study				
	B)	Clinical trial				
	C)	Case control study				
	D)	Cohort study				

 The following table gives the results of a screening test for diabetes compared to a confirmatory evaluation (oral glucose tolerance test).

True diagnosis

Test result	Diabetic	Not Diabetic		Total
Positive	34	20		54
Negative	116	9830		9946
Total	150	9850	1	10,000

The sensitivity of this screening test for diagnosing diabetes is:

- A) 23%
- B) 63%
- C) 29%
- D) 99%
- 73. What is the difference between incidence and prevalence?
 - A) Incidence refers to the proportion of the population with a disease, while prevalence refers to the number of new cases of a disease in a population over a period of time
 - B) Incidence refers to the number of new cases of a disease in a population over a period of time, while prevalence refers to the proportion of the population with a disease
 - Incidence and prevalence are the same thing
 - Incidence and prevalence are measures of mortality
- 74. What is the purpose of a case-control study?
 - A) To determine the incidence of a disease in a population
 - B) To determine the cause of a disease
 - To determine the prevalence of a disease in a population
 - To compare the characteristics of individuals with a disease to those without a disease
- 75. What is the difference between a cohort study and a case-control study?
 - In a cohort study, participants are selected based on their disease status, while in a case-control study, participants are selected based on their exposure status
 - In a cohort study, participants are followed over time to observe outcomes, while in a case-control study, outcomes have already occurred
 - C) Cohort studies are more expensive than case-control studies
 - D) Case-control studies are more rigorous than cohort studies

76. What is a randomised controlled trial (RCT)?

- An observational study that compares the incidence of a disease in a population with different levels of exposure to a risk factor
- A study that compares the characteristics of individuals with a disease to those without a disease
- A study that randomly assigns participants to an intervention or control group to evaluate the effectiveness of a treatment or prevention strategy
- A study that compares the prevalence of a disease in a population with different levels of exposure to a risk factor

77. What is the difference between sensitivity and specificity?

- Sensitivity is the proportion of true negatives, while specificity is the proportion of true positives
- Sensitivity is the proportion of true positives, while specificity is the proportion of true negatives
- Sensitivity and specificity are the same thing
- Sensitivity and specificity are measures of prevalence
- 78. A ten-year prospective study is conducted to assess the effect of regular supplementary folic acid consumption on the risk of developing Alzheimer's dementiA) The investigators report a relative risk of 0.77 (95% confidence interval 0.59-0.98) in those who consume folic acid supplements compared to those who do not. Which of the following p values most likely corresponds to the results reported by the investigators?
 - A) 0.03
 - B) 0.05
 - C) 0.07
 - D) 0.09

79. Which of the following is NOT a key element of outbreak investigation?

- A) Identification of the outbreak
- B) Characterization of the outbreak
- C) Determination of the cause of the outbreak
- D) Implementation of a vaccination campaign

- 80. A randomized double-blind clinical trial is conducted to evaluate the effect of a new hypolipidemic drug on the survival of patients after PTCA 1000 patients undergoing PTCA are randomly assigned to the drug or placebo (500 patients in each group) and then followed for 3 years for the development of acute coronary syndrome. Severe acute myositis is reported as a rare side effect of the drug therapy, but the difference between the two groups in the occurrence of this side effect is not statistically significant (p = 0.09). The same side effect was reported in several small clinical trials of this drug. The failure to detect a statistically significant difference in the occurrence of acute myositis between the treatment and placebo groups is most likely due to
 - A) Selection bias
 - B) Short follow-up period
 - Inappropriate selection of the patients
 - D) Small sample size
- 81. What is the difference between a pandemic and an epidemic?
 - A) A pandemic is a disease outbreak that occurs in a specific geographic area, while an epidemic is a disease outbreak that occurs across multiple continents
 - A pandemic is a disease outbreak that affects a large region or multiple continents, while an epidemic is a disease outbreak that affects a smaller geographic area or population
 - Pandemic and epidemic are interchangeable terms that describe the same thing
 - A pandemic is a disease outbreak that affects animals, while an epidemic is a disease outbreak that affects humans
- 82. What is the difference between passive and active surveillance in disease monitoring?
 - Passive surveillance involves healthcare providers reporting cases to public health authorities, while active surveillance involves public health authorities actively seeking out cases
 - Passive surveillance involves monitoring of cases in the general population, while active surveillance involves monitoring of cases in specific high-risk populations
 - Passive surveillance is more expensive than active surveillance
 - Passive surveillance is more accurate than active surveillance

- 83. What is the difference between quarantine and isolation?
 - Quarantine is the separation of individuals who are ill from those who are not ill, while isolation is the restriction of movement for individuals who have been exposed to a disease but are not yet ill
 - B) Quarantine is the restriction of movement for individuals who have been exposed to a disease but are not yet ill, while isolation is the separation of individuals who are ill from those who are not ill
 - Quarantine and isolation are interchangeable terms that describe the same thing
 - Quarantine and isolation are both measures used to prevent the spread of disease within a population
- 84. A large prospective study is designed to assess the association between postmenopausal hormone replacement therapy (HRT) and the risk of dementia, Alzheimer type. Small studies conducted earlier suggest a possible protective effect of HRT. What is the probability that the study will show an association if in fact HRT does affect the risk of dementia?
 - A) α.
 - B) B
 - C) 1-a
 - D) 1 β
- 85. Which of the following is an example of a vector-borne disease?
 - A) HIV
 - B) Tuberculosis
 - C) Malaria
 - D) Influenza
- 86. What is the basic reproduction number (RO) of a disease?
 - A) The average number of individuals infected by one person with the disease
 - The total number of individuals in a population who have been infected with the disease
 - C) The proportion of individuals in a population who are immune to the disease
 - The proportion of individuals in a population who have been vaccinated against the disease

- 87. A researcher, reported a study in which healthy women aged 45 to 65 received either a calcium supplement or a placebo for 12 weeks. He reported, "The calcium group had significantly lower blood pressure compared with the placebo group." Which of the following sets of data is consistent with his statement?
 - A) Difference = 10 mm Hg with 95% Cl 2.4 to 17.6
 - B) Difference = 20 mm Hg with 95% Cl -5 to 45.
 - C) Difference = 30 mm Hg with 95% Cl 0.1 to 60.
 - D) Difference = 20 mm Hg with 95% Cl -2 to 40.
- 88. A key factor facilitating the application of nested case-control studies was:
 - A) Data collection
 - B) Establishment of a repository of biologic specimens
 - Participant interest
 - Administration of the questionnaire by staff
- 89. Which of the following is not a method of control of confounding
 - A) Restriction
 - B) Matching
 - C) Stratified analysis
 - Ensuring use of accurate instruments.
- 90. Which of the following is NOT an essential characteristic of a confounding variable?
 - A) It should lie in the direct chain of causation between exposure and the outcome variable
 - B) It should be related to the exposure variable
 - C) It should be related to the outcome variable, independent of it's relationship with the exposure variable
 - It should be differentially distributed
- Which of the following is not a method of control of confounding
 - A) Restriction
 - B) Matching
 - C) Stratified analysis
 - D) Ensuring use of accurate instruments.

92.		articular infectious disease can display a bro s is known as the:	oad scope of manifestat	ions and severities
	A)	Incubation period		
	B)	Gradient of infection		4 44
	C)	Endemic level of disease		
	D)	Stage of susceptibility	10 10	
93.	dete	irect and direct causes of disease may f ermines the level of disease in a communit ed the:	보이스의 회사 시간에 가지 아버지의 경우에 경우에 가장하는데 되었다면 그래?	
	A)	Necessary cause of disease		
	B)	Iceberg phenomenon		
	C)	Causal web		
	D)	Epidemiological triangle		
94.	Whi	ile conducting experimental study, arrange Randomization	the following steps in	sequential manner
	2.	Blinding		
	3.	Statistical analysis		
	4.	Enumerate the inclusion and exclusion of	riteria	*
	A)	4, 1, 2, 3		
	B)	4, 2, 1, 3		
	C)	2, 1, 3, 4		
	D)	2, 1, 4, 3		
95.	case seas the c	es of viral hepatitis are monitored by the D of viral hepatitis is indicated by a dot on the onal variations annually by monitoring the cases according to age, gender, occupation, butes. Identify the study design.	ne map of the district. I number of cases each n	He also records the nonth. He classifies
	A)	Descriptive		
	B)	Case control		
	C)	Cohort		
	D)	Ecological		
(63)	(A)	(21)		[P.T.O.

~-	4.000	Water Control	orthograph	2000
96.	A conva	ilescent	carrier	IS:

- A) A person who transmits the agent prior to the onset of disease
- B) An animal carrier
- An infected person who has recovered from disease but still harbors and transmits the agent
- D) None of the above
- 97. Which of the following is a chemical barrier to infection.
 - A) Intact skin
 - B) Respiratory cilia
 - C) Natural killer cells
 - D) Gastric acidity
- 98. What is the major attribute of Correlation Analysis?
 - A) Association among variables
 - B) Difference among variables
 - C) Regression among variables
 - D) Variations among variables
- 99. Which of the following features are considered as critical in qualitative research?
 - A) Collecting data with the help of standardized research tools.
 - B) Design sampling with probability sample techniques.
 - C) Collecting data with bottom-up empirical evidence.
 - Gathering data with top-down schematic evidence.
- 100. A research intends to explore the result of possible factors for the organization of effective mid-day meal interventions. Which research method will be most appropriate for this study?
 - A) Descriptive survey method
 - B) Historical method
 - C) Ex-post facto method
 - D) Experimental method

ROUGH WORK

ROUGH WORK



(63) (A) (24

Booklet Serial No. 213765

Test Booklet Series

MEDICAL RECORD OFFICER ALLIED ANCILLARY SECTION CENTRAL RECORD SECTIO

Written Test - 2023

(69)

Time Allowed: Two Hours

Maximum Marks: 100

INSTRUCTIONS

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
- 3. You have to enter your Roll Number on the
 Test Booklet in the Box provided alongside.
 - DO NOT write anything else on the Test Booklet.
- 4. This Test booklet contains 100 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
- All items carry equal marks.
- Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer /Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- Sheets for rough work are appended in the Test Booklet at the end.
- While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- 11. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

(69) (A)/2023 [P.T.O.



ROTERS

(69) (A)

Registration of Births and Deaths Act was passed in India in the year				
A)	1990			
B)	1969			
C)	1980			
D)	1999			
		TV.		
The	Indian Evidence Act came in force in the year			
	1890			
1000	1869			
	1872			
D)	1901			
Wh	at is the ICD-10 code option for COVID virus identific	ed in nation17		
		cu in patient:		
175.5000				
-33				
Nor				
A)	Local Administrative Authority			
B)	Local Police Authority			
C)	Local Municipal Authority			
D)	None of the above			
Onc	cology deals with			
A)	Bones			
B)	Liver			
C)	Kidney			
D)	Cancer			
Left	Parietal Lobe is a part of			
100000	Brain			
D)	Spleen			
Asr	per WHO guidelines ontimal Bed occupancy rate in He	ospital must be:		
4 6 7 1 1 1 1 1	[2] 사람들은 사람들이 많은 사무 전에 발매되었다. 그리고 하는 사람들은 사람들은 사람들은 사람들은 사람들이 되었다. 그리고 나를 가는 것이다고 있다.	esperial intest out		
1:10:00	75%			
C)	1.170			
	A) B) C) D) The A) B) C) D) Not A) B) C) D) Onc A) B) C) D) Left A) B) C) D)	A) 1990 B) 1969 C) 1980 D) 1999 The Indian Evidence Act came in force in the year A) 1890 B) 1869 C) 1872 D) 1901 What is the ICD-10 code option for COVID virus identified A) U07.2 B) U07.1 C) U08.9 D) U09.9 Non-Communicable Diseases are to be reported to A) Local Administrative Authority B) Local Police Authority C) Local Municipal Authority D) None of the above Oncology deals with A) Bones B) Liver C) Kidney D) Cancer Left Parietal Lobe is a part of A) lungs B) Liver C) Kidney D) Cancer As per WHO guidelines optimal Bed occupancy rate in HeA) 95%		

8.	Ave	rage Length of Stay in Hospital can be computed with								
0.	A)	Total Days of care / Total Discharges	-	_						
	B)	Total Discharges/Days of Care								
	C)	Total discharges – Deaths /Days of care	7							
		Total discharges x Deaths /Days of care								
	D)	Total discharges x Deaths /Days of Care								
9.		IMA: International Federation of Health Information M sess official linkage with	/Janage	mentAs	sociation					
	A)	Govt. of UK								
	B)	Govt. of India								
	C)	Govt. of USA								
	D)	WHO								
10.	NΑ	BH: National Accreditation Board for Hospitals assures an	d onen	vae						
10.	A)	그렇게 하는 사람들이 가게 하면 되었습니다. 그렇게 되었다면서 하면 하는 것이 되었습니다. 그렇게 하는 것이 하는 것이 없는 것이 없었다면 하다.	u chsu		-					
	B)	Average quality health care services and patient safety. Medium quality health care services and patient safety.								
	C)	Medium quality health care services and patient safety.								
	D)	Lowest quality health care services and patient safety. Highest quality health care services and patient safety.								
	-	riigitos quanty nounii ouro sei vices una punein surety.								
11.	ICE	ICD(International Classification of Diseases) 11th edition has been prepared by								
	A)	Govt. of UK								
	B)	Govt. of India								
	C)	Govt. of USA								
	D)	WHO								
12.	Foli	owing is correct about the role of Medical Record Officers	in Hosp	ital Fur	nctioning:					
	A)	Maintaining, Coordinating, Supervision, and Administration of Medical record section.								
	B)	Focus on quality health care services and patient safety.								
	C)	Focus on Medical Research, Legal matters, and statutory	compli	ances.						
	D)	All of the above.								
13.		HA is a Digital Platform which maintains health records o	f patien	ts in dig	gital form					
	A)	Accessible to all people.								
	B)	Only accessible by Treating Doctors								
	C)	Only accessible by Patient concerned.								
	D)	Only accessible by family of patients.								
(69)	(A)	(4)								

14.		As per NCAHP Act 2021, the nomenclature of the subject/department of Medical Records Science has been changed to						
	A)	2 Harrier 1988 1988 1988 1988 1988 1988 1988 198						
	B)	Health Record Management Department.						
	13 (5)	Health Informatics Management Department						
	C)							
	D)	Physiorecordology Department.						
15.	Dr.	G.R. Mc Giboney has defined Medical Records						
	A)	Patient care service records to focus on quality health care services and patient safety.						
	B)	Patient care service records to focus on Research, Education, legal matters and NGO's.						
	C)	Hospital Medical Records that deal with Patients, Police, Public, Research, Education, Court Cases, Govt. and NGO's.						
	D)	As a clinical, scientific, administrative and medico-legal document related to the patients care, which contains sufficient data in sequence of events to justify the diagnosis, warrant the treatment and end results.						
16.	Cho	oose correct ICD-10 code for Fracture Femur Shaft:						
	A)	\$72.3						
	B)	\$72.0						
	C)	\$82.4						
	D)	S62.3						
17.	Path	nogenic bacteria generates						
	A)	A geographical environment.						
	B)	A disaster environment.						
	C)	A Disease environment.						
	D)	None of the above						
18.	CR	ANIOTOMY means						
	A)	Excision of a part of the skull.						
	B)	Incision of the skull.						
	C)	Inflammation of the skull.						
	D)	None of the above						
19.	Vita	min-A deficiency causes						
	A)	Rickets.						
	B)	Night Blindness.						
	C)	Beriberi.						
	D)	Scurvy.						
(69)	(A)	(5) [P.T.O.						

20.	PA	NCREAS secretes	_ 1 1				
	A)	CSF.		3			
	B)	RBC.		ų.			
	C)	WBC.		i.			
	D)	Insulin.		*			
21.	The	patient has a right to get	of Medical Records?			G.	
	A)	Copy of all related to him/her		1			
	B)	Original Set					
	C)	Discharge summary and Investig	ation reports only	Χ.			
	D)	None of the above					
22.	Me	dical Records are the property of?					
	A)	Hospital					
	B)	Patients					
	C)	Relatives					
	D)	Physicians					
23.	Dea	th rate including all deaths occurr	ing in the hospital before	and afte	r 48-l	hours	of
	A)	Gross Death rate					
	B)	Net Death rate					
	C)	Ward Death rate					
	D)	Hospital Death rate					
24.	War	d Census is taken at what time?					
	A)	Morning 8 am					
	B)	Evening 8 pm					
	C)	Day Time 12 noon					
	D)	Midnight					
25.	POM	MR is ?					
-37A	A)	Place On Medical Record					
	B)	Problem Oriented Medical Recor	rd				
	C)	Problem Originated Medical Rec					
	D)	Problem Omitted Medical Record					
(69)	(A)	10	(6)				

26.	Medical negligence involves?				
	A)	Act of Omission			
	B)	Act of Commission			
	C)	Both A and B	4-		
	D)	None of the above			
27.	The	Audit done by other than the treating team of doctor	rs is knov	vn as?	
	A)	Internal Medical Record Audit			
	B)	External Medical Record Audit			
	C)	All Medical Record Audit			
	D)	Infection Control Audit			
			17		
28.	Foll	lowing is a Viral disease?			
	A)	Hansen's disease			
	B)	Poliomyelitis			
	C)	Typhoid			
	D)	Tuberculosis			
29.	Hist	ology is the study of?			
	A)	Cell			
	B)	Tissue			
	C)	Tumors			
	D)	Allofabove			
30.	The	ability to detect changes in the Environment is?			
	A)	Movement			
	B)	Sensitivity			
	C)	Sensation			
	D)	Power			

	2010	od Cells are manufactured in the?	
	A)	Bone	
	B)	Liver	
	C)	Gall Bladder	
	D)	Bone Marrow	
33.	AS	mall Bone to which the Tongue is at	tached?
	A)	Maxillary	
	B)	Ethmoid	
	C)	Frontal	
	D)	Hyoid	
34.	Wri	te the meaning of Steato?	
	A)	Fat	
	B)	High	
	C)	Behind	
	D)	Thick	
35.	Med	dical term for Breast Bone is?	
	A)	Sternum	
	B)	Ribs	
	C)	Collar Bones	
	D)	Clavicle	
36.	Alpi	na Fetoprotein in a blood test is don	ne to detect?
	A)	Down's Syndrome	
	B)	Hormone Deficiency	
	C)	Vitamin Deficiency	
	D)	Iodine Deficiency	

31. Which of the following is Ductless Gland

Endocrine Gland

Pituitary Gland Thyroid Gland

D) All the above

A) B)

C)

37.	'Gr	een Stick' Fractures are usually seen in?
	A)	Injuries due to Stick
	B)	Children
	C)	Old age due to Osteoporosis
	D)	Road Traffic Accident
38.	Fra	cture of the ankle involving one or both the malleolus is called as
	A)	Green Stick fracture
	B)	Trasverse fracture
	C)	Pott'sfracture
	D)	Avulsion fracture
39.	Wh	iplash Injuries are seen in?
	A)	Road Traffic Accident
	B)	Custodial Torture and Death
	C)	Cases of whipping and torture
	D)	All the above cases
40.	Scie	entific measurement of the dimension of the head?
	A)	Cephalography
	B)	Cephalopathy
	C)	Cephalometry
	D)	Cephalonomy
41.	Con	nputerized X-ray of cross sectional layers of tissue is known as?
	A)	PET Scan
	B)	MRI
	C)	CT scan
	D)	USS
42.	Writ	e medical name of a muscle having too heads?
	A)	Biceps
	B)	Bicyps
	C)	Bilateral
	D)	Bicus

43.	Enl	argement of Salivary Glands is called?
	A)	Siladenitis
	B)	Sialadenoma
	C)	Sialadenopathy
	D)	Sialden
44.	The	e scientific name of Food Pipe is ?
	A)	Oropharynx
	B)	Oesophagus
	C)	Larynx
	D)	Nasopharynx
45.	Foll	lowing is a Benign tumor ?
	A)	Hemangioma
	B)	Sarcoma
	C)	Astrocytoma
	D)	Glioma
46.	Hist	tology is useful for what?
	A)	Cancer Registry
	B)	Coding of Medical Records
	C)	Pathology
	D)	Sonography
47.	The	term used for Fluid Balance Sheet is?
	A)	TPR Chart
	B)	Urine Sugar Monitoring Chart
	C)	Input Output Chart
	D)	Neuro Observation Chart
48.	Surg	gical Death (Perioperative mortality) has to be considered as death following?
	A)	Within 24 hour of Surgery.
	B)	Within one year of surgery.
	C)	Within one month of Surgery
	D)	Within 30 days of Surgery
(69)	(A)	(10)

49.		etter or group of letters added at the end of a rd. It is called as ?	word gives further info	rmation about th
	A)	Prefix		- 9
	B)	Root	(8)	
	C)	Suffix		
	D)	Combining		
50.	Life	span of platelet is?		
	A)	7-14 days		
	B)	1-2 days		
	C)	4-6 days		
	D)	5-6 days		
51.	Wha	at is the meaning of 'Kerato'?		
	A)	Eye		
	B)	Comea		
	C)	Eye Lid		
	D)	Retina		
52.	Hov	w many bones does an adult human skeleton	have?	
	A)	205		
	B)	207		
	C)	206		
	D)	209		
53.	Hov	w many bones does human ankle has?		
	A)	7		
	B)	6		
	C)	9		
	D)	8		
54.	Wh	ich area does not have Lymph Nodes?		
	A)	Spinal Cord		
	B)	Stomach		
	C)	Neck		
	D)	Lungs		

55.	Wh	ich part of the Brain Controls the Heart?						
	A)	Cerebellum						
	B)	Medulla Oblongata						
	C)	Hypothalamus						
	D)	None of these						
56.	Wh	ich of the following listed below connects muscle to the bones?						
	A)	Cartilage						
	B)	Areola						
	C)	Ligament						
	D)	Tendon						
57.	The	Femur bones of the human body is also known as?						
	A)	Wrist bones						
	B)	Thigh bones						
	C)	Shoulder bones						
	D)	Collar bones						
58.	Wh	What is the largest part of the Human Brain?						
	A)	Hypothalamus						
	B)	Medulla oblongata						
	C)	Cerebrum						
	D)	Cerebellum						
59.	Hov	v many bones does a new born human baby have?						
	A)	305						
	B)	211						
	C)	206						
	D)	411						
60.	Whi	ch of the following blood cells play an important role in blood clotting?						
	A)	Thrombocytes						
	B)	Erythrocytes						
	C)	Neutrophils						
	D)	Leukocytes						
(69)	(A)	(12)						

61.	Sen	um differs from blood as it lacks?						
	A)	Antibodies						
	B)	Clotting Factors						
	C)	Albumin						
	D)	Globulin						
62.	Unc	fer the 1T Act 2000, the medical records are classified as:						
	A)	Classified personal information						
	B)	Private access information		3	17			
	C)	Sensitive personal information						
	D)	Hospital access information						
63.	The	architecture of electronic health records is governed by:						
	A)	ISO 18308:2011 Health Informatics						
	B)	ISO/HL7 10781:2015 Health Informatics						
	C)	ISO 13940 Health Informatics						
	D)	ISO 13606 Health Informatics						
64.	All	All of the following are responsibilities of the health care provider except:						
	A)	To store medical records of the patients						
	B)	To provide copy of complete medical records to the patie	ents	on req	uest			
	C)	To provide certified copy of medical records to insurance agencies on their request if patient has given authorization						
	D)	To provide copy of entire medical records to local munic	ipali	ty on	request	t		
65.	Log	ical Observation Identifiers Names and Codes (LOINC) co	oding	g is to	be used	for:		
	A)	Processing results and reports with laboratory and imagin	ng in	forma	tion sy	stems.		
	B)	Processing information related to cross referrals						
	C)	Processing records of other health care institutions						
	D)	Processing notifiable diseases						
66.	Eve	ry health care facility in India is required to report a case o	f:					
	A)	Coryza						
	B)	Hepatitis E						
	C)	Legionella						
	D)	Leprosy						
						n m 0		

67.	Dea	aths have to be registered within a period of days from their occurrence
	A)	7
	B)	14
	C)	21
	D)	3
68.	Cho	oose the correct workflow in the MRD:
	A)	Indexing-sorting-coding-incomplete record check
	B)	Indexing-incomplete record check-sorting-coding
	C)	Sorting-incomplete record check-indexing-coding
	D)	Sorting-coding-indexing-incomplete record check
69.	SO	AP stands for:
	A)	Standardized objective assessment of patients
	B)	Subjective objective assessment plan
	C)	Standardized operational advanced plan
	D)	Subjective operational advanced plan
70.	In a	ddition to births and deaths, Medical record office is obligated to report:
	A)	IVF
	B)	Still-births
	C)	Organ transplants
	D)	All of the above
71.	Med	dical record storage area must have mandatory:
	A)	Environmental clearance
	B)	Fire clearance
	C)	Theft clearance
	D)	Land clearance
72.	The	manual processing of voice reports dictated by physicians into text format is called:
	A)	Medical indexing
	B)	Medical transcription
	C)	Medical auditing
	D)	Medical conduiting
(69)	(A)	(14)

- The Ayushman Bharat Digital Mission allows for:
 - A) Mandatory sharing of medical records of patients with health care providers
 - B) Sharing of medical records with consent of patient
 - C) Sharing of medical record with consent of health care provider
 - Sharing of medical record with consent of treating hospital
- 74. Which of the following is the responsibility of the MRD:
 - A) To ensure that the patients know about hospital services
 - B) To provide insurance cover to patients
 - To design and provide registration forms and OPD cards
 - D) To give advice on discharge
- Hospital admission rate =
 - A) Total admissions during the year × 1000
 Mid-year population
 - B) Total admissions during the year × 100
 Mid-year population
 - Total admissions during the year × 1000
 Total number of patients seen by the hospital in that year
 - Total admissions during the year × 100
 Total number of patients seen by the hospital in that year
- 76. Crude death rate is directly proportional to:
 - A) Number of deaths reported in a hospital
 - Number of deaths reported in the emergency of a hospital
 - Number of deaths reported in the hospital after the first 24 hours of admission
 - Number of deaths reported in a hospital after the first 48 hours of admission
- Daily average OPD attendance is given by:
 - A) Total number of outpatient attendance during the period
 Number of OPD working days during the period
 - Total number of outpatient attendance during the period
 Number of Total working days during the period
 - Total number of outpatient attendance during the period
 Number of IPD working days during the period
 - Total number of outpatient and emergency attendance during the period
 Number of OPD and emergency working days during the period

- 78. The denominator used to calculate the Cesarean section rate is:
 - A) Total number of pregnant women admitted in that period
 - Number of live births in that period
 - C) Number of births in that period
 - Number of patients with EDD in that period
- 79. Ratio of actual patient days to the maximum possible patient days during a given period
 - A) Bed turnover interval
 - B) Average length of stay
 - C) Bed occupancy rate
 - D) Bed turnover rate
- 80. Which of the following are included as hospital beds in the census
 - A) Beds in the post operative area
 - B) Beds in nephrology ward
 - C) Beds in emergency ward
 - D) Beds in the labor room ward
- 81. Pick out the correct statement: On request, ...
 - Medical records of an adult married living patient can be given to the spouse
 - Medical records of an adult married patient who has expired can be given to the parents
 - C) Medical records of an adult married living patient can be given to the children
 - Medical records of an adult married patient who has expired can be given to the spouse
- 82. In a hospital ward, medical file of a patient must be kept:
 - A) Next to the patient's bed.
 - B) In safe keeping with the attendant.
 - C) At the nurses' counter.
 - D) With the concerned doctor.
- 83. Please choose the correct statement
 - Medical records of foreign national patients have to be shared with their embassy.
 - B) Medical records needs to be produced in a court of law on demand.
 - C) Medical records of victims of sexual harassment are to be sent to the State Commission for Women.
 - Medical records of a patient are to be shared with his/her close family members.

84	Fin	al disposition of medical record should be done by:				
04.	A)	Shredding and selling as waste.				
	B)	Shredding and incineration.				
	C)	Shredding and water treatment.				
	D)	Shredding and land fill.				
	D)	Sincoding and land lin.				
85.	The	main aim of indexing is:				
	A)	To organize medical records to save space.				
	B)	For easy retrieval of files.				
	C)	To locate lost files.				
	D)	To help in coding				
86.	The	system of coding of medical records followed worldwide and recommended by the				
		IO at present is:				
	A)	ICD-9				
	B)	ICD - 10				
	C)	ICD-11				
	D)	ICD – 12				
87.	Wh	ich of the following statements is not correct?				
	A)	An EMR is mainly used for diagnosis and treatment.				
	B)	EMR allows a patient's medical information to be accessed from different places.				
	C)	EMR is a digital version of a patient TPR and Input Output chart.				
	D)	EMR is facility specific.				
88.	Rec	Records pertaining to medico legal cases should be retained for atleast:				
	A)					
	B)	5Yrs.				
	C)	10 Yrs.				
	D)	Lifetime.				
89.	The disadvantage of the serial unit numbering system of record keeping is:					
	A)	It creates multiple records at various places.				
	B)	It is time consuming.				
	C)	It does not link patient record to previous visits.				
	D)	It makes record retrieval difficult.				
90.	Pati	ent's medical records must be linked with:				
2.464	A)					
	B)	Two identifiers other than bed number.				
	C)	One identifier other than bed number.				
	D)	Name and address of the patient.				
	101	rame and address of the patient.				

91.	The	following does not constitute a patient's medical record:				
	A)	Patient's OPD card.				
	B)	Patient's consent.				
	C)	Patient's billing information.				
	D)	Patient's discharge summary.				
92.	The	ABHA ID has a provision for:				
	A)	Voluntary opt-in for the health care provider.				
	B)	Voluntary opt in/opt-out for the patient.				
	C)	Automatic opt-out for the patient.				
	D)	Voluntary opt-out for health care provider.				
93.	Consent for treatment must not be:					
	A)	Voluntary				
	B)	Coerced				
	C)	Informed				
	D)	Unambiguous.				
94.	The age of consent for physical examination of a victim of sexual harassment is					
	A)	21 Years				
	B)	18 Years				
	C)	16 Years				
	D)	12 Years				
95.	Electronic medical record is acceptable as evidence in a court of law if:					
	A)	It is encrypted / signed with a private key				
	B)	If it is verified physically				
	C)	It is acceptable in all circumstances				
	D)	Is not acceptable at all				
96.	Wh	ich of the following is not a feature of SNOMED-CT				
	A)	It provides a standardized clinical terminology				
	B)	It encourages easy interpretation of clinical terms across different languages				

C)

D)

It has a numerical reference system

It is mono-hierarchical

97.	Me	dical records of a patient are exempt from disclosure under RTI because of:		
	A)	Fiduciary relationship		
	B)	Impede the process of investigation		
	C)	Sensitive information		
	D)	Endanger the life of the patient		
98.	The	final assembly of medical records in the MRD places the Anesthesia charts before		
	A)	Discharge summary		
	B)	ICU charts		
	C)	Operation notes		
	D)	Progress sheets		
99.	. The first medical records unit was set up in 1667 in :			
	A)	St Catherine's hospital in the UK		
	B)	Sloan Kettering Centre in the US		
	C)	St. Bartholomew's hospital in the UK		
	D)	At Agnes' hospital in Netherlands		
100.	Med	lical records should be:		
	A)	Voluminous		
	B)	Accurate		
	C)	Brief		
	D)	Referred		

ROUGH WORK

(69) (A)

Booklet Serial No. 213945

Test Booklet Series

TEST BOOKLET TUBERCULOSIS AND RESPIRATORY DISEASES



Written Test - 2023

(81)

Time Allowed: Two Hours

Maximum Marks: 100

INSTRUCTIONS

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
- You have to enter your Roll Number on the Test Booklet in the Box provided alongside.

DO NOT write anything else on the Test Booklet.

- 4. This Test booklet contains 100 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
- All items carry equal marks.
- Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer /Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- 9. Sheets for rough work are appended in the Test Booklet at the end.
- While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- 11. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

(81) (A)/2023 [P.T.O.

- A 50-year-old female presents with persistent breathlessness, wheezing and recurrent
 exacerbations of asthma for the last 5 years despite being on high dose of inhaled
 corticosteroids and maximal inhaled bronchodilators. She is referred to a tertiary care
 hospital where the physician suspects refractory Type 2 inflammation in the patients.
 What investigation/s can confirm the presence of persistent type 2 inflammation as the
 cause of symptoms in the patient
 - A) Fractional exhaled Nitric oxide
 - B) Sputum eosinophil level
 - C) Blood eosinophil level
 - D) All of the above
- 2. A 70-year-old male with 40 pack years of smoking history was diagnosed to be suffering from COPD and was put on dual bronchodilator. He was also on treatment for diabetes and coronary artery disease. He remained stable on treatment with mild dyspnoea (mMRC grade II) for next one year except that he developed single moderate exacerbation that was treated on outpatient basis. His spirometry during stable phase showed post bronchodilator FEV1 of 60% predicted, FVC of 75% predicted and FEV1/FVC of 52%. What will be his grading of COPD as per GOLD guidelines?
 - A) Spirometry grade 1 group A
 - B) Spirometry grade 2 group B
 - C) Spirometry grade 2 group A
 - Spirometry grade 1 group B
- Correct statement about bronchopulmonary sequestration include
 - A) Bronchopulmonary sequestraion are more common in the right lung
 - B) Intralobar pulmonary sequestration has its own visceral pleural lining
 - Extra-lobar pulmonary sequestration are more common than intra-lobar sequestration
 - Surgical excision is the preferred treatment of symptomatic pulmonary sequestration
- A 68-year-old male with 30 pack years of smoking history presented with incidental finding of 7mm solid nodule on contrast enhanced Chest CT. What is the most appropriate next step in management
 - A) Repeat CT chest after 3-6 months
 - B) Repeat chest CT after 6-12 months
 - No follow up is required
 - D) CT guided biopsy of the nodule

- 5. A 61-year-old smoker male presented with cough, right sided chest pain and hemoptysis for 2 months. CECT thorax showed 4 cm mass lesion in right upper lobe that was not touching the periphery or any of the mediastinal structures. On routine bronchoscopy the mass was not visualized any of the lobar or segmental bronchus. PET scan showed additional FDG avid ipsilateral mediastinal lymph nodes with no other active focus in the body. His clinical TNM stage is
 - A) IIB
 - B) IIIA
 - C) IIIB
 - D) IIIC
- 6. A 60-year-old COPD patient presented with acute exacerbation in emergency. He was already on antibiotics, oral steroids and diuretics for the past 5 days with partial response. An arterial blood gas at presentation was pH: 7.41, PCO2 65 mmHg; PO2: 52 mmHg, HCO3; 40. What is the ABG interpretation.
 - A) Acute Respiratory Acidosis
 - B) Acute on chronic respiratory acidosis
 - C) Chronic respiratory acidosis
 - Respiratory acidosis with metabolic alkalosis
- 7. A 20-year-old-male presented with 1 month history of cough, fever and weight loss. X-ray chest showed bilateral cavitary disease. Sputum was positive for acid fast bacilli. CBNAAT showed Mycobacterium DNA with Rifampicin resistance detected. First & second line LPA didn't show any mutation to Isoniazid and levofloxacin. His pretreatment evaluation, blood tests and ECG was normal. What is the preferred ATT regimen for this patient?
 - A) All oral Longer Bedaquiline containing regimen
 - B) All oral shorter Bedaquiline containing regimen
 - C) 24 month regimen without Bedaquiline
 - D) None of the above
- The form of chemotherapy commonly used for the management of locally advanced non-small cell lung cancer is called as
 - Adjuvant chemotherapy
 - B) Concurrent chemotherapy
 - Palliative chemotherapy
 - D) Neo-adjuvant chemotherapy
- All are ideally required for the evaluation of adult house hold contact of smear positive Pulmonary TB patients to start tuberculosis preventive treatment, except.
 - A) Symptom assessment
 - B) X-ray chest PA
 - C) Mantoux test
 - D) None of the above

- According to latest guidelines, choice for tuberculosis preventive therapy for multidrug resistant TB patients include
 - A) 6 months of Levofloxacin
 - B) 4 months of linezolid
 - C) 6 months of Bedaquiline
 - D) 4 months of pyrazinamide
- 11. A 50-year-old male presented with fever and pain abdomen for last 1 month. He had no past history of tuberculosis treatment. In view of abdominal distension, ascitic fluid tapping was done showed lymphocytic rich fluid, serum to ascitic fluid albumin gradiant of 0.8 g/dl, ascitic fluid proteins 4 g/dl and ADA of 30U/L. what is the next step in his management?
 - A) Start Anti-tuberculosis treatment
 - B) Ultrasound abdomen
 - C) Ultrasound guided core biopsy
 - D) CECT abdomen
- In the Prevent Detect Treat Build Approach of NSP 2017 2025, 'Build' pillar includes all the following points, except.
 - A) Community engagement
 - B) Inter-ministerial and corporate sector engagement
 - Integrated health system approach
 - Free TB drugs for all TB cases
- In 2023, patient support schemes for TB patients currently running under the National TB Elimination Programme include all the following, except
 - A) Ni-Kshay Poshan Yojana
 - B) TB Notification
 - C) Honorarium for Treatment Supporters
 - D) Pradhan Mantri TB Mukt Bharat Abhiyaan -Ni-Kshay Mitra
- Under NTEP, TB notification can be done through
 - A) Ni-kshay Portal
 - B) Call Centre
 - C) Physical Performa
 - All of the above
- According to Jones and Campbell classification of peripheral tuberculous lymph nodes. Stage 4 is
 - A) Cold abscess -central softening due to abscess formation
 - B) Collar-stud abscess formation
 - C) Sinus tract formation
 - Peri adenitis -large rubbery nodes fixed to surrounding tissue

- 16. Characteristic feature of lymph nodes in sarcoidosis includes
 - A) Peripheral enhancement with Conglomeration
 - B) Peripheral enhancement and discrete
 - C) Homogenous and discrete
 - D) Homogenous with Conglomeration
- 17. Typical CSF findings in a case of tubercular meningitis include
 - Proteins >100 mg/dl, 100 500 cells/μl, glucose <40% of the blood glucose level
 - Proteins <10 mg/dl, < 10 cells/μl, glucose <40% of the blood glucose level
 - C) Proteins >100 mg/dl, >5000 cells/µl, glucose <20% of the blood glucose level</p>
 - Proteins <10 mg/dl, <100 cells/μl, glucose same as blood glucose level
- 18. Out of the following, which anti-tubercular drug has the lowest CSF penetration
 - A) Linezolid
 - B) Pyrazinamide
 - C) Isoniazid
 - D) Rifampicin
- 19. In intestinal tuberculosis, Diarrhoea is most commonly seen in
 - A) Ulcerative involvement of small intestine
 - B) Stricturous involvement of small intestine
 - C) Ulcerative involvement of large intestine
 - D) Hypertrophic involvement of large intestine
- 20. Radiological features characteristic of intestinal tuberculosis include
 - A) Short segment involvement with Concentric strictures
 - B) Short segment involvement with Eccentric strictures
 - C) Long segment involvement with Eccentric strictures
 - D) Long segment involvement with Concentric strictures
- 21. Following antibiotics have good penetration into respiratory secretions except:
 - A) Carbapenems
 - B) Ciprofloxacin
 - C) Azithromycin
 - D) Clindamycin
- 22. All of the following drugs are used for treating Pneumocystis Jiroveci infection except:
 - A) Clindamycin
 - B) Pantamidine
 - C) Trimethoprim-sulphamethaxazole
 - D) Metronidazole

- 23. All are true about primary Cilliary Dyskinesia (PCD) except:
 - A) PCD typically presents early in life.
 - B) PCD is characterized by complete loss of cough clearance
 - Bronchiectasis is common with predilection for right middle lobe and lingular lobe.
 - Non-seasonal rhinosinusits begins at < 6 years of age.
- 24. Which of the following airway clearance techniques/agents are used in the management of bronchiectasis?
 - A) Inhaled Mannitol
 - B) hypertonic Saline
 - C) High-frequency chest wall oscillation
 - D) All of the above
- 25. Which of the following Mycobacterium abscessus sub-species has non-functional erm 23 SrRNA methylase gene rendering macrolide susceptibility:
 - A) M. abscessus
 - B) M. bolleti
 - C) M. massiliense
 - D) None of the above
- 26. As per 2019 IDSA/ATS guideline for CAP, blood culture should be done in all of the following situations except:
 - Patients receiving empiric treatment for Pseudomonas aeruginosa or Methicillin resistant Staphylococcus aureus
 - B) Patients with prior infection with P. Aeruginosa or MRSA
 - C) All CAP patients.
 - Patients who have been hospitalised and received parenteral antibiotics in last 90 days.
- 27. Which of the following parameter have been assigned highest point in pneumonia severity index?
 - A) BUN ≥ 30 mg/dl
 - B) PaO2 < 60 mmHg</p>
 - C) Altered mental status
 - D) pH >7.35
- 28. All of the following are the risk factors of having MDR pathogens in patients with hospital acquired pneumonia, except:
 - A) COPD patients
 - B) Home wound care
 - C) Septic shock at the time of VAP onset
 - D) Patient developing ARDS after VAP onset

- 29. All of the following are the recommended strategies to prevent Nosocomial pneumonia except:
 - A) Short course antibiotic therapy (when clinically applicable)
 - B) Chest physiotherapy
 - C) Oral Chlorhexidine
 - D) Closed endo-tracheal suctioning
- 30. All of the following are risk factors for developing pulmonary NTM infection except:
 - A) Advance age
 - B) Female sex
 - C) Obesity (BMI > 30 kg/m²)
 - D) Scoliosis
- 31. Which of the following statement is false regarding opportunistic mold infections of the lung:
 - A) Mucorales causes the vast majority of fungal pneumonia, followed by aspergillus.
 - Mucorales are associated with presence of diabetes mellitus, acidosis and malnutrition.
 - Mucorales are broad-based non-septate fungi.
 - Pulmonary mucormycosis has a predilection for the upper lobes.
- 32. Which of the following is part of treatment recommendations for severe acute pulmonary histoplasmosis?
 - A) Methyl prednisolone
 - B) Itraconazole
 - C) Liposomal Amphotericin B
 - D) All of the above
- Which of the following diagnostic test is most sensitive for identification of blastomycosis.
 - A) Urinary Antigen test
 - B) Serology complement fixation test
 - C) Sputum culture
 - D) Sputum KOH
- 34. Which of the following virus has dsDNA genome?
 - A) Influenza virus
 - B) Corona virus
 - C) Adenovirus
 - D) Respiratory syncital virus

- 35. Mechanism of action of newer antibiotic 'Omadacycline' is
 - A) Inhibit ribosomal proteins and prevent efflux pump
 - B) Cell wall synthesis inhibitor
 - C) Inhibit topoisomerase IV
 - D) Bind to iron and enters bacteria through iron channel
- 36. Which of the following statement is false regarding pathogenesis of invasive pulmonary aspergillosis (IPA)?
 - A) Spread only via inhalational route
 - B) Iron overload promotes IPA
 - Invasive aspergillosis can spread to contagious organ, across the diaphragm to stomach.
 - Non angio-invasive IPA common in non-neutropenic patients (taking corticosteroids)
- 37. Which of the following measure is not recommended regarding the use of antibiotic therapy in Hospital acquired pneumonia?
 - Promptly initiate empiric antibiotic therapy when there is clinical suspicion of infection.
 - Use of narrow spectrum agent for patients with no risk factors for MDR pathogens.
 - No use of adjunctive aerosolized aminoglycosides in patients with highly resistant gram-negative MDR pathogens.
 - D) Drug of choice for Acinetobacter is a carbapenem
- 38. Which of the following organism is a causal factor for haemorrhagic mediastinitis:
 - A) Histoplasma
 - B) Bacillus anthracis
 - C) Brucella
 - D) Actinomycosis
- 39. In North America, chronic fibrosing mediastinits is most commonly caused by:
 - A) Blastomycosis
 - B) Coccidiomycosis
 - C) Aspergillosis
 - D) Histoplasmosis
- 40. Which of the following statement is false about Bronchogenic cyst?
 - A) May have their own pleura
 - B) Intra pulmonary cyst is more common than mediastinal cyst
 - C) Lined by respiratory epithelium, but no gas exchange potential
 - D) Lower lobe involvement more common than upper lobe

- 41. Which of the following statement is false about thymoma?
 - A) A clinical diagnosis is often sufficient to proceed to resection without biopsy.
 - Presence of acetyl choline receptor antibodies is indicative of thymoma.
 - C) Thymoma commonly occur in children < 5 years age.</p>
 - Total Thymectomy should be performed in all cases of thymoma where AchR-Abs are present in asymptomatic patients.
- 42. All are common abnormalities of anterior mediastinum except:
 - A) Teratomatous neoplasm
 - B) Hernia through foramen of Morgagni.
 - C) Lymphomas
 - D) Bronchogenic cyst
- 43. Posterior mediastinum includes all except:
 - A) Descending thoracic aorta
 - B) Pulmonary artery
 - C) Oesophagus
 - D) Thoracic duct
- Following is the best sequence from most common to least common mediastinal tumour in adults.
 - A) Neurogenic tumour >> Thymoma >> Lymphoma
 - B) Lymphoma >> Neurogenic tumour >> Thymoma
 - C) Thymoma >> Lymphoma >> Neurogenic tumour
 - D) Thymoma >> Neurogenic tumour >> Lymphoma
- 45. Following statement is false about nerve sheath tumour?
 - A) Schwannoma are one of most common mediastinal neurogenic tumours.
 - Post excision-recurrence is high
 - Surgical resection is the definitive treatment
 - Most patients are asymptomatic
- 46. Most common symptom of Pulmonary Hypertension is
 - A) Dyspnoea on exertion
 - B) Dyspnoea at rest
 - C) Presyncope
 - D) Chest pain
- 47. The following group of patients are most likely to be reactive to Calcium channel blockers
 - A) Idiopathic PAH
 - B) Heritable PAH
 - C) Drug related PAH
 - All of the above

- 48. All are true regarding acute vasoreactivity test except
 - A) A positive test is characterized by reduction of mPAP by 10 mm Hg or more to an absolute mPAP of 40 mm Hg or less
 - B) An increased or unchanged CO.
 - Calcium channel blockers should be used to gauge acute response
 - Those patients with negative acute vasoreactivity do not benefit from CCB therapy
- In a Basic Life support (BLS) algorithm, the ratio of chest compressions to no of rescue breaths that should be given to a unresponsive patient without pulse is
 - A) 20 chest compressions and 2 breaths
 - B) 20 chest compressions and 4 breaths
 - C) 30 chest compressions and 2 breaths
 - D) 30 chest compressions and 4 breaths
- Whis of the following is the component of the team dynamics that should be followed by a critical care team
 - A) Open loop communication
 - B) Constructive intervention
 - C) Fast messaging
 - D) Working beyond our limits
- 51. A 31-year-old woman with family history of pulmonary hypertension is referred to local Pulmonary hypertension service for assessment. Her right heart catheterization results from the tertiary centre are

Mcan pulmonary artery pressure: 28mm Hg

Pulmonary artery wedge pressure:12mmHg

What is the single best interpretation of these results?

- A) Combined Precapillary and post capillary PH
- B) Inconclusive result : unable to confirm or exclude PH
- C) Precapillary PH: consistent with idiopathic PAH
- Post capillary PH, consistent with associated left heart disease

- Optimal management for Chronic thromboembolic pulmonary hypertension is: A) Warfarin Pulmonary thromboendarterectomy Balloon Pulmonary angioplasty Riociguat A 33-year-old woman presented to emergency department with complaints of breathlessness and 3 syncopal episodes in the last 24 hours. She has history of tibial fracture 3 weeks back. Her spo2 is 89% on room air, her Heart Rate is 116 bpm, BP - 76/ 44mmHg. The doctor on duty advised to thrombolyse the patient ad told she cannot be taken for CT scan. Which one of the following findings indicate the need for immediate thrombolysis? D-dimer: 1000ng/ml A) High PESI score B) C) Spo2 89% RA RV dysfunction on Echocardiogram D) 54. A pregnant female develops sudden onset of breathlessness. Her PESI score is 86, her
- wells score is 5. What is the initial investigation of choice for this patient?
 - A) CTAngiography
 - 2 D echocardiogram B)
 - C) Doppler of lower limbs
 - ventilation perfusion scan D)
- 55. Which of the following anti-tubercular drug is known to cause vestibular toxicity
 - A) Amikacin
 - Isoniazid B)
 - C) Linezolid
 - All of the above D)
- 56. Roflumilast, a drug used in severe COPD comes under which class?
 - A) Endothelin receptor antagonist
 - B) Anti-IL 5
 - C) PDE-5 inhibitor
 - D) PDE-4 inhibitor
- 57. Most commonly affected organ in microscopic polyangitis is
 - A) Lungs
 - Skin B)
 - Kidney C)
 - Peripheral nerves D)

 Which of the following is associated with good prognosis in Eosinophilic granulomatosis with polyangiitis A) Presence of nasal symptoms B) cardiac involvement C) GI involvement D) Absence of nasal symptoms Anti-tubercular drug that can be given in divided doses is Linezolid B) Pyrazinamide C) Cycloserine Ethambutol D) 60. Adjunct airway device that is used to open the airway in a critically sick conscious patient is A) Nasopharyngeal airway Oropharyngeal airway B) C) Endotracheal tube D) None of the above A 30-year-old female complains of cough, hemoptysis and shortness of breath. There is profound generalized weakness, but no fever. On examination there is pallor and chest auscultation revealed bilateral scattered crepitations. Hb- 6.7gm/dl. TLC-6300, N70 Chest X-ray showed bilateral diffuse parenchymal infiltrates. PFT showed FVC 92%, FEV1/ FVC - 84%, DLCO - 128% predicted. Most likely diagnosis is A) Pulmonary tuberculosis Bilateral bronchiectasis B) Diffuse pulmonary alveolar hemorrhage C) D) Lymphangioleiomyomatosis 62. In a normal ECG, normal PR interval is A) 0.04-0.08 seconds B) 0.08-0.12 seconds C) 0.12-0.20 seconds 0.20-0.28 seconds P.T.O.

(13)

(81) (A)

- All are true except about Pulmonary alveolar proteinosis
 - A) Serum LDH is increased in primary Pulmonary alveolar proteinosis (PAP)
 - B) Serum GM CSF is elevated in autoimmune Pulmonary alveolar proteinosis
 - Serum Cytokeratin 19 is elevated in hereditary PAP
 - Routine blood counts and chemistry are usually normal in primary PAP
- 64. A 20-year-old patient was diagnosed as pulmonary Tuberculosis with AFB smear showing 2+ positivity. Rifampicin resistance was not detected on CBNAAT. After 2 months of treatment, patient improved clinically. However, his sputum smear showed scanty positivity for AFB. Which of the following can't be the likely reason for the lack of sputum conversion?
 - A) Delayed conversion
 - B) Isoniazid mono resistance
 - Immune reconstitution inflammatory syndrome
 - D) Dead bacilli
- 65. A-50-year-old male was suffering from severe snoring and daytime sleepiness. He underwent polysomnography and diagnosed with OSA and started on CPAP treatment. Few weeks later patient was totally uncomfortable with the device and denied to continue it further. He seeks some alternative management. What will be your advice for the same?
 - A) Continue CPAP at low pressure
 - B) shift to BiPAP
 - Mandibular advancement devices
 - D) Surgical uvulopalatopharyngoplasty
- 66. 'Out of centre' sleep testing is performed in all except:
 - A) high pre-test probability of OSA
 - B) no sleep related comorbidities
 - C) immobile patient
 - D) patients with risk of CSA
- 67. All are true regarding treatment of OSA, except
 - A) CPAP is the treatment of choice
 - B) Auto CPAP improves adherence compared to fixed CPAP therapy
 - Adherence is defined as more than 4 hours of use for more than 70% nights
 - D) Oral appliances are used as alternatives to CPAP for moderate OSA
- 68. The emergence of central apnoea during CPAP titration for trearment of OSA is called
 - A) Mixed sleep apnoea
 - B) Complex sleep apnoea
 - C) Idiopathic central sleep apnoea
 - Central hypoventilation sleep apnoea

- 69. A 5-month-old baby was admitted to NICU because of frequent episodes of respiratory arrest for a few seconds at the onset of sleep. There were no rales or heart murmurs. The muscle tone was good. No family history of respiratory conditions. Arterial blood gas analysis shows increased paCO2 and bicarbonate concentration. What is the diagnosis?
 - A) Central hypoventilation syndrome
 - Pickwickian syndrome
 - C) Metabolic Alkalosis
 - D) Metabolic acidosis
- 70. Obesity hypoventilation includes all except
 - A) BMI > 30 km/m²
 - B) Daytime PaCO2 >45 mm Hg
 - C) Rise in PaCO2 of > 10 mm Hg during sleep
 - Absence of other known causes of hypoventilation
- 71. Pleural effusion associated with constrictive pericarditis is?
 - Always transudate
 - B) Typically exudate, occasionally transudate
 - C) Always exudate
 - Typically transudate, occasionally exudate
- 72. Nature of pleural effusion in conditions like hypothyroid effusion, pulmonary embolism, sarcoidosis and trapped lung is ?
 - Always transudate
 - B) Typically exudate, occasionally transudate
 - C) Always exudate
 - Typically transudate, occasionally exudate
- 73. Elevated beta-2 transferrin levels in pleural effusion is seen in which of the following clinical conditions?
 - A) Urinothorax
 - B) Glycinothorax
 - C) Biliopleural fistula
 - Ventriculoperitoneal shunt migration
- 74. Pick the wrong statement in LENT Score :-
 - A) It is prospectively validated scoring system to estimate survival in malignant pleural effusion
 - B) 'N' in 'LENT' stands for N/L ratio in pleural fluid
 - C) 'T' in 'LENT' stands for the primary tumour type
 - 'E' in 'LENT' stands for performance status

75						
. /5.	A)	cording to cerfolio classification of air leak, grade 3 air leak is seen during Expiration only				
72	B)	During forced expiration only, usually asking the patient to cough				
	C)	Inspiration only				
	D)	Both inspiration and expiration				
76.	Which of the following statement is true regarding thoracic ultrasound in pneumothorax?					
	A)	Presence of A lines confirms pneumothorax				
	B)	Presence of B lines are very specific for pneumothorax				
	C)	Linear array transducers are more sensitive than convex array transducers for detecting pneumothorax				
	D)	Absence of lung sliding confirms pneumothorax				
77.		Which of the following commonly done procedure is associated with highest risk of iatrogenic pneumothorax?				
	A)	Mechanical Ventilation				
	B)	CT guided percutaneous fine needle aspiration				
	C)	Transbronchial cryobiopsy				
	D)	Navigational bronchoscopy				
78.	What is the estimated size of pneumothorax by light's formula if the diameter of collapsed lung is 6cm and the diameter of the hemithorax is 10cm?					
	A)	58%				
	B)	68%				
	C)	78%				
	D)	88%				
79.	Chromosomal translocation that occur in primary pleural synovial sarcoma is?					
	A)	t(14,18)				
	B)	t(20,22)				
	C)	t(X,18)				
	D)	t(20,14)				
80.	Mod	Modality of choice for the treatment of solitary fibrous tumour of the pleura?				
	A)	Neoadjuvant chemotherapy				
	B)	Sequential chemo-radiotherapy				
	C)	Surgical resection				
	D)	Only Radiotherapy				

	A)		ARDS patients?						
	100000	NHLBI							
	B)	EXPRESS							
	C)	FACTT							
	D)	All of the above			8				
82.		ich of the following cytokines/ch	emokines are implicate	ed in the patho-physiology					
	of A	RDS?							
	A)	Von-Willebrand factor (VWF)			30				
	B)								
	C)								
	D)	All of the above							
83.	Inw	hich of the following clinical condi	tion, ventilatory strategy	of permissive hypercapnia					
	in A	in ARDS patients is contraindicated?							
	A)	Acute myocardial ischemia							
	B)	Patients on beta-blockers							
	C)	Right ventricular failure							
	D)	All of the above							
84.	Whi	ch mode of NIPPV should be first	line therapy in patient w	rith low AHI and malignant					
	A)	Manual CPAP							
		AVAPS							
	C)								
		Auto CPAP							
85.		t common genetic abnormality see frome is:-	en in patients of congeni	ital central hypoventilation					
	A)	Mutation in 8p14							
	B)	Mutation in 4p12							
	C)	Mutation in 2q10							
	D)	Mutation in 4q8							
86.	Pati	ents on Varenicline for smoking c	essation should be regu	ilarly monitored for					
	A)	Hepatitis							
	B)	Coagulation abnormalities							
	C)	Neuropsychiatric behavior							
	D)	Anaemia							
87.	Laryngoscopic view in grade 3 Cormack-Lehane score is ?								
	A)	마양의 중요 중요하다 이 하는 아이가 아이가 있다. (중요) 아이와 아이가 아이가 아이가 아이가 하는데 아이는데 아이는데 아이는데 아이는데 아이는데 아이는데 아이는데 아이							
	B)								
		: []							
	C)	Epiglottis not visualised							
	C) D)	Only Epiglottis visualised							

88.	Which of the following is not a step in using metered dose inhaler in a mechanically ventilated patient?			
	A)	Assure tidal volume > 500 ml		

- B) Aim for an inspiratory time > 0.30 of the total breath time
- C) Breath hold at end expiration for 3-5sec
- Ventilator breath is synchronized with patient's inspiration
- 89. Which of the following is the rescue or salvage interventions used in severe hypoxemia resistant to conventional mechanical ventilation and PEEP?
 - A) Pressure controlled inverse ratio ventilation
 - B) Inhaled Nitric Oxide
 - C) Corticosteroids
 - D) All of the above
- 90. Nocturnal hypoventilation can be diagnosed if?
 - A) PaCO2 is > 45mmHg for greater than equal to 15 min
 - B) PaCO2 is > 50mmHg for greater than equal to 10min
 - C) PaCO2 is > 55mmHg for greater than equal to 10min
 - PaCO2 is > 60mmHg for greater than equal to 15min
- 91. In a Basic life support (BLS) algorithm, what is the rate of chest compressions in an unresponsive patient with no pulse?
 - A) 60-80/minute
 - B) 80-100/minute
 - C) 100-120/minute
 - D) 120-140/minute
- 92. Which of the following is/are the accepted indication/s of acute oxygen therapy?
 - A) Severe acute anemia
 - B) Severe trauma
 - C) Low cardiac output with metabolic acidosis
 - D) All of the above
- 93. Which of the following trial has been done in COPD patients regarding use of continuous oxygen?
 - A) BMRCD trial
 - B) LOTT trial
 - C) LOVS trial
 - D) NOTT trial

.01	(A)	_	(19)					
	D)	20% or 120ml						
	C)	12% or 200 ml						
	B)	128 N - 148 N N N N N N N N N N N N N N N N N N N						
	A)	12% and 200ml						
		is a documented increase in FEV, of?						
100.		Bronchodilator reversibility is said to be positive if after 15min of inhaled SABA, there						
	100	25%						
	B) C)	20%						
	A)	15%						
		bronchoprovocative agent that reduces FEV, by?						
99.	Bronchial hyper-responsiveness is defined as the inhaled concentration of the							
	C)	Occupational asthma		Cystic fibrosis				
	A)	ABPA		Sensitivity to aspirin				
	inflammation, and recurring nasal polyps along with?							
98.	Samter's triad refers to a condition in an individual having combination of Asthma, nasal							
	D)	 Severe upper zone bullous emphysema with moderate lower zone centrilobular emphysema 						
	Severe upper zone bullous emphysema with relatively spared lower zone							
	B) Severe, lower zone bullous emphysema and mild upper zone paraseptal emphysema							
	Mild, predominant upper and middle lobe emphysema							
	following setting?							
97.			in a COPD patie	nt would be of maximum benefit in the				
	D)	Dornase alpha						
	C)	Pancreatin						
	B)	Azithromycin						
	A)							
96.	Whi	ich of the following can act a	s a mucolytic ag	ent?				
	C)	Femero femoral	D)	Jugulo IVC				
	A)	Femero jugular	B)	Jugulo femoral				
95.	Most common configuration used in VV-ECMO is?							
	D)	None						
	C)	7.1						
	B)	7.2						
	A)	7.3						
		icinies:						
	guid	lelines?		나는 (하) [6] (1) 이 아니라 하나 하는 것이 되었다. 하는 것이 없는 하는 것이 없는 것이었다.				

.

ROUGH WORK

(81) (A)

Booklet Serial No. 214009

Test Booklet Series

TEST BOOKLET ANESTHESIOLOGY

Written Test - 2023

(55)



Time Allowed: Two Hours

Maximum Marks: 100

INSTRUCTIONS

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
- You have to enter your Roll Number on the
 Test Booklet in the Box provided alongside.

 DO NOT write anything else on the Test Booklet.
- 4. This Test booklet contains 100 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
- All items carry equal marks.
- Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer /Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- Sheets for rough work are appended in the Test Booklet at the end.
- While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- 11. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

(55) (A)/2023 [P.T.O.

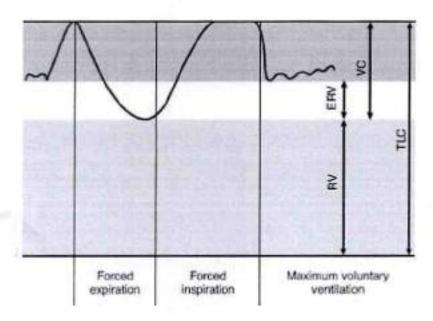
(55) (A)

- 1. Disability adjusted life year is a unit to quantify
 - A) Premature death and disability
 - Expected life expectancy
 - C) Resource allocation for disease and disability
 - D) Socio demographic index for death
- 2. Following statements regarding Oxygen concentrators are true
 - I. Oxygen concentrators utilize technique of swing adsorption
 - II. It has zeolite crystals to extract Nitrogen from air to produce oxygen
 - III. Purity of oxygen is high with high flow rates
 - IV. They can be used to provide supplemental oxygen in PACU.
 - A) I, II, III are correct
 - B) I, II, IV are correct
 - C) Only I and II are correct
 - D) Only III and IV are correct
- I-PASS scripted model for patient handout stands for
 - A) Information, Preparation, Association, Sedation, Surgery
 - B) Infirmity, Preparation, Anesthetic check up, Safety concerns, Severity
 - Illness severity, Patient summary, Action list, Situation awareness and contingency
 Plan, Synthesis by receiver
 - D) Indisposition, Patient complaints, Affirmations, Surgery, Synchronize
- Microsimulation involves:
 - A) Trainers in form of anatomic form up devices
 - B) Trainers with virtual environment in the computer
 - C) Trainers that are mannequin based simulator system
 - D) Trainers that are screen based simulating part or entire aspect of clinical anaesthesia
- The most relevant clinical competence is :
 - A) Fact Gathering / Factual Knowledge
 - B) Real time performance
 - C) Demonstration of performance
 - D) Interpretation and application of facts/knowledge

6.	Foll	owing is NOT a night time symptom for Obstructive sleep apnea
	A)	Frequent awakening during night
	B)	Awakeing from choking sensation
	C)	Bradycardia
	D)	Sleep that is not restorative
7.	Mel	atonin levels are decreased with:
	A)	Increasing Age
	B)	Opioids
	C)	Vasopressors
	D)	Nebulised beta 2 agonists
8.	(BP	culate cerebral perfusion pressure (CPP) from the following data: blood pressure (100/70, heart rate (HR) 65 beats/min, cardiac output 5 L/min, CVP of 5 cm/H2 O, ICP 15 mm Hg
	A)	60 mm Hg
	B)	65 mm Hg
	C)	70 mm Hg
	D)	75 mm Hg
9.	Con	aplete suppression of EEG in hypothermia is observed at temperature range :
	A)	18-20 Degree C
	B)	22-24 degree Celcius
	C)	26-28 Degree Celcius
	D)	24 – 26 Degree Celcius
10.		en preparing to place a thoracic epidural, you palpate the inferior border of the scapula. landmark corresponds to which level of the vertebral column?
	A)	C7-T1
	B)	T4-T6
	C)	T10-T11
	D)	T7-T8

(55) (A)

- 11. Post tetanic stimulation is seen due to increase of which ion in the nerve endings
 - A) Magnesium
 - B) Calcium
 - C) Sodium
 - D) Potassium
- 12. For any given concentration of volatile anesthetic, the splitting ratio is dependent on which of the following characteristics of that volatile anesthetic?
 - A) Saturated Vapor pressure
 - B) Molecular weight
 - C) Specific heat
 - D) Minimum alveolar concentration (MAC) at 1 atmosphere
- 13. In the pulmonary capillaries, The oxygen dissociation curve shifts to :
 - A) Right
 - B) Left
 - C) Alternates between right and left
 - D) None
- 14. The following graph represents following condition:



- A) Restrictive lung disease
- C) Obstructive lung disease
- B) Normal lung capacity
- D) Extrathoracic obstruction

The units of measurement of airway resistance	tance is:
---	-----------

- A) Cm H,O/L/Sec
- B) Ml/cm H,O
- C) Mm Hg
- D) Dynes/cm/sec

16. Read the following statements regarding atelectasis under anaesthesia:

- Atelectasis is unrelated to type of anesthesia
- II. It is seen in spontaneous respiration and after muscle paralysis
- III. It is seen with both intravenous and inhaled anaesthetics.
- IV. Degree of atelectasis is relatively less after thoracic surgery
- A) I, II and IV are correct
- B) I, II and III are correct
- C) II, III and IV are correct
- D) I, III and IV are correct

17. Increased VCO2 is seen in all conditions EXCEPT:

- A) Fever
- B) Malignant Hyperthermia
- C) Hypothyroidism
- Use of sodium Bicarbonate

18. The H zone in a sarcomere in the following diagram contains :

- A) Only myosin filaments
- B) Only actin filaments
- Both Actin and myosin filaments
- D) Depicts end of the sarcomere

19. Read the following statements about Bezold Zarisch reflex:

- It is in response to noxious ventricular stimuli
- II. It induces Hypotension, bradycardia and coronary artery dilatation
- III. It is more pronounced in patients with Atrial Fibrillation
- IV. It is a cardioprotective reflex
- A) I, II and III are correct
- B) II.III and IV are correct
- I,II and IV are correct
- I,III and IV are correct

20.	Match the color coding of cylinders								
	1.	Oxygen	a	Gray					
	II.	Carbon di oxide	b.	Brown					
	Ш	Nitrous oxide	c.	Green					
	IV.	Helium	d.	Blue					
	A)	I-a, II-d, III b, IV-a							
	B)	I-d, II-b, III -c, IV-a							
	C)	I-b, II-c, III, a, IV-d							
	D)	I-c, II-a, III-d, IV-b							
21.	If you lose the oxygen pipeline pressure and you have a pressure of 475 psig in the oxygen cylinder, how long can you supply oxygen from that cylinder?								
	A)	60 minutes							
	B)	165 minutes							
	C)	30 minutes							
	D)	100 minutes							
22.	The Vortex approach is a cognitive aid designed to facilitate management of								
	A)) Unanticipated difficult airway							
	B)	Anticipated difficult airway							
	C)	Difficult Supraglottic device placement							
	D)	Difficult regional anesthesia b	lock placeme	ent					
23.	Calculate the body mass index (BMI) of a man 200 cm (6 feet 6 inches) tall Weighing 100 kg:								
	A)	20 kg/m ²							
	B)	25 kg/m ²							
	C)								
	D)	35 kg/m ²							
24.	The P50 for fetal haemoglobin is approximately								
	A)								
	B)								
	C)								
		0) 18 mm Hg							

(55) (A)

- Which of the following acid-base disturbances is the least well-compensated?
 A) Metabolic alkalosis
 B) Respiratory alkalosis
 C) Increased anion gap metabolic acidosis
- 26. Consider the following statements regarding rapid sequence induction
 - I It is specialized method of induction in patients at risk of pulmonary aspiration
 - II. Goal is to reduce the time between loss of consciousness and securing the airway
 - III. Criciod pressure is applied to occlude the upper pharynx
 - IV. Recommended force is 30 N after loss of consciousness
 - A) I,II and III are correct
 - B) II,III and IV are correct
 - C) I, II and IV are correct
 - D) All the options are correct
- 27. Following is marker of difficult mask ventilation:

Normal anion gap metabolic acidosis

- A) Female Gender
- B) BMI < 30kg/ m²</p>
- C) Mallampati class II
- D) Obstructive sleep apnea
- 28. The second generation all silicone LMA that allows continuous monitoring of cuff pressure is:
 - A) LMA Gastro
 - B) I Gel
 - C) LMA Protector
 - D) LMA supreme
- All of the following patients with respiratory failure may be candidates for noninvasive positive pressure ventilation (NIPPV) EXCEPT
 - A) Decompensated heart failure and SpO, 85% on room air
 - B) HIV-positive patient with bilateral opacities on chest X-Ray and PaO₂/FiO₂ 150
 - Urosepsis requiring norepinephrine with tachypnea and SpO₂ 90% on 6 L nasal cannula
 - D) Acute chronic obstructive pulmonary disease (COPD) exacerbation and PaCO₂ 70 mm Hg

- 30. Alcohol-based hand rubs are not effective in removing following bacteria
 - A) Clostridium difficile
 - B) Vancomycin-resistant enterococci
 - Methicillin-resistant Staphylococcus aureus (MRSA)
 - D) Mycobacterium tuberculosis (MTB)
- 31. Consider the following statement regarding ICU Acquired weakness (ICUAW): (ICUAW) EXCEPT which one?
 - I. Treatment of hyperglycemia
 - II. Minimizing use of steroids
 - III. Minimizing use of neuromuscular blockers
 - IV. Passive exercises in sedated patients
 - V. Early diagnosis with electrophysiology studies
 - A) All the options are correct
 - B) Only I,II,III,IV are correct
 - C) Only II, III, IV are correct
 - D) None as ICU AW is independent to the factors mentioned
- 32. The following capnograph is usually seen with:



- A) Presence of leak in sidestream sample line
- B) Faulty inspiratory valve
- C) Esophageal intubation
- D) Faulty expiration valve
- 33. A delay in the ABG sample analysis at room temperature or at 4° C can lead to:
 - A) Rise in P_a CO₂ levels
 - B) Rise in P O, levels
 - C) Decline in P.O. levels
 - D) Decline in Pa CO2 levels

34. The following image on lung Ultrasonography depicts which of the following:



- A) Pneumothorax
- B) Normal Lung scan
- C) B line artifacts
- D) Pleural effusion

35. Frost bite injury is an occupational hazard encountered in personnels handling :

- A) Oxygen Cylinders
- B) Nitrous Cylinders
- C) Carbon dioxide Cylinders
- D) Air cylindres

36. The negative pressure suctioning of trachea in adults is:

- A) 70- 150 mm Hg
- B) 50-60 mm Hg
- C) 150- 200 mm Hg
- D) 45-90 mm Hg

37. The relationship of radius and length on the flow through the vascular catheters involves following principles of physics:

- A) Reynold's number
- B) Hagen Poiscuille equation
- C) Graham's Law
- D) Bernoulli's Principle

38. Elective surgery should be postponed after a myocardial infarction for at least

- A) 30 days
- B) 8 weeks
- C) 3 months
- D) 6 months

(55)	(A)	(11) [P.T.C).		
	D)	Gender			
	C)	Advanced age			
	B)	Dose of the local anesthetic drug			
	A)	Baricity			
		a neuraxial block is:			
43.	The	factors that is not important in the local anaesthetic distribution and block height	in		
	D)	Mist formation in the endotracheal tube			
	C)	Peripheral cyanosis			
	B)	Diastolic BP less than 20 mm Hg			
	A)	PeTCO ₂ more than 10 mm Hg during CPR			
42.	Whi	ch of the following indicates adequacy of CPR during resuscitation:			
	D)	Asthma			
	C)	Congenital diaphragmatic hemia			
	B)	Trauma			
	A)	Laryngospasm			
41.		tive-pressure ventilation with a face mask is contraindicated in which of the following	ng		
	D)	Increased cardiac output			
	C)	Resting tachycardia			
	B)	Widened pulse pressure			
	A)	Increased peripheral vascular resistance			
40.		ch of the following cardiovascular abnormalities is <i>least</i> likely to be present in ent with end-stage alcoholic cirrhosis	a		
	D)	10 days			
	C)	5 days			
	B)	3 days			
	A)	12 hours			
39.	a kr	5-year-old male with a history of mitral valve replacement 2 years back presents f ee replacement. He is on warfarin since the time of valve replacement. As per ASR lelines, the ideal time to stop his warfarin prior to surgery would be			

44. Identify the type of spinal needle by electron micrograph of the needle tip design



- A) Whitacre Needle
- B) Sprotte needle
- C) Quinke Babcock needle
- D) Pitkin needle

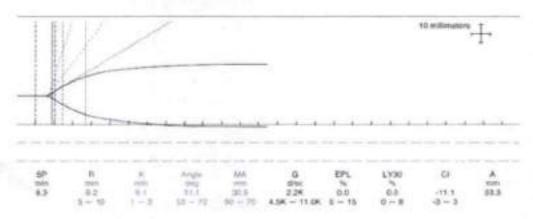
45. Urinary retention encountered after neuraxial Anesthesia can be attributed to:

- A) S₂, S₃ and S₄ nerve root inhibition
- B) By the use of neuraxial opioids
- C) Both the factors can contribute
- D) It is an independent entity with no factors attributing to it

46. Stress related mucosal injury:

- I is encountered in patients with acute, life threatening illness
- II. Is due to splanchnic vasoconstriction and hypoperfusion
- III. Mechanical ventilation is a high risk factor for stress ulcer bleeding
- IV. Maintain pH>4 in gastric aspirates.
- A) All options are correct
- B) Only I,II,III are correct
- C) Only II, III and IV are correct
- D) Only I, III and IV are correct

- 47. All the conditions can cause hyperkalaemia EXCEPT:
 - A) Tubulointerstitial Nephritis
 - B) Mineralocorticoid excess
 - C) Reperfusion of Ischemic tissue
 - D) Succinylcholine
- 48. The synthetic blood has all advantages over the Allogenic blood EXCEPT:
 - A) Stable at room temperature
 - B) No risk of disease transmission
 - C) Duration of action is for 60 90 days
 - Provides rapid Oxygen delivery independent of 2, 3 DPG levels
- 49. A 45 yr old female was scheduled to undergo total abdominal hysterectomy. The patients was transfused 3 units of Packed Red blood cells during the surgery along with the crystalloids. After the completion of surgery, the patient was observed in PACU and transferred to the ward after 45 minutes. In two hours a call was received with complaints of dyspnea, cough and orthopnea with elevated CVP pressures. Radiographic image was similar to that of pulmonary edema. The most likely diagnosis is in this case is:
 - A) Transusion related Acute Lung Injury
 - B) Transfusion associated circulatory overload
 - C) Delayed hemolytic reaction to blood transfusion
 - Non hemolytic ransfusion reactions
- 50. The following thromboelastograph represents following state:



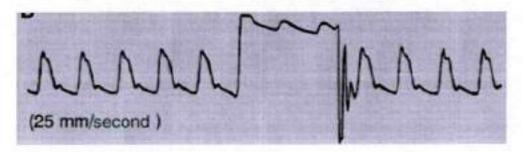
- A) Hypofibrinogenemia
- B) Normal TEG
- C) Hyperfibrinolysis
- D) Hyperthermia

- 51. The SPIKES (Setting, perception, Invitation, Knowledge, Empathy and sequel) is a framework of protocol for:
 A) Written Informed Consent
 B) Explaining Perioperative complications
 C) Breaking bad news
 D) Responding to the emotions including anger
- Calculate the predicted post operative FEV₁ in a 38 years old male, undergoing right lower lobectomy with preoperative FEV₁ of 70 %
 - A) 45 %
 - B) 50 %
 - C) 40 %
 - D) 60 %
- 53. Factor that correlates with increased desaturation during one lung ventilation (OLV) is :
 - A) Left sided thoracotomy
 - B) Lateral positioning during OLV
 - C) Low percentage of ventilation or perfusion to the operative lung on preoperative V/Q scan
 - D) Normal preoperative spirometry
- 54. A 150 kg male patient is scheduled to undergo lumbar spine fixation in view of Pott's spine. He has never visited hospital before and gives history of snoring at bed time only. On polysomnography, done as a part of the workup, the patient is found to have Apneahypoapnea index (AHI) of around 25 per hour. He fits into which category of obstructive sleep apnea disease:
 - A) Mild
 - B) Moderate
 - C) Severe
 - D) Very severe
- 55. Which of the following cardiovascular parameter is decreased in terms of physiological changes of pregnancy:
 - A) Pulmonary Vascular resistance
 - B) Erythrocyte volume
 - C) Stroke volume
 - D) Plasma Volume

56.	Wh	en used in labor analgesia remifentanil is:		
	A)	superior to epidural analgesia		
	B)	Equivalent to epidural analgesia		
	C)	Inferior to Epidural analgesia		
	D)	It is not employed for labor analgesia		
57.	part	eral anaesthesia is induced in a 35-year-old patient for electiv of the glottis apparatus is visible after two unsuccessful at k ventilation is adequate. The most appropriate step at this po	tempts to intubate, but	
	A)	Use a laryngeal mask airway		
	B)	Attempt a blind nasal intubation		
	C)	Continue mask ventilation and cricoid pressure		
	D)	Awaken the patient		
58.	Foll	owing statement regarding fat embolism syndrome (FES) is	False:	
	A)	Increased intramedullary pressure with disruption of venous	sinusoids leads to FES	
	B)	Injury to Pulmonary endothelium is triggered by release of	free fatty acids	
	C)	Surgical manipulation and reaming is not considered to pla	ay role in the entity	
	D)	Petechial rashes form a part of clinical presentation of the	FES	
59.	A patient brought to emergency with history of road side accident is, confused, opening eyes to speech and is localizing the painful stimuli has a GCS of :			
	A)	15		
	B)	12		
	C)	11		
	D)	8		
60.		ch of the following is NOT a goal for early resuscitation in p major heamorrhage:	patients sustain trauma	
	A)	Maintain hematocrit 25% - 30 %		
	B)	Maintain normal serum ionized calcium		
	C)	Prevent increase in serum lactate		
		Maintain core temperature lower than 35 °C		

.

- 61. Read the following statements regarding the fluid infusion system in haemorrhagic shock:
 - I It enables the fluid administration at rate of around 1500 ml
 - Fluids are infused at controlled temperature
 - III. It has a fail safe detection system to prevent infusion of air
 - IV. It is not compatible with the administration of red blood cells and plasma
 - A) I, II and III are correct
 - B) II, III and IV are correct
 - C) I, II and IV are correct
 - D) All the option are correct
- 62. To achive uniform arterial occlusion, the length and width of the sphygmomanometer bladder should be:
 - A) At least 60% and 40 % respectively
 - B) At least 80 % and 40 percent respectively
 - C) At least 80 % and 50 % respectively
 - D) At least 60 % and 50 % respectively
- 63. After a rapid flush test, the following arterial trace is suggestive of :



- A) Normal arterial system
- B) Overdamped Arterial system
- C) Underdamped Arterial system
- D) Artifact
- 64. Consider the following parameters in patient presenting with shock CVP - High; Cardiac output – Low; Systemic vascular resistance - High The most probable type of shock in this patient is:
 - A) Hypovolemic shock
 - B) Anaphylactic shock
 - C) Vasogenic shock
 - D) Cardiogenic shock

65.	A sl	nift of oxygen dissociation curve to left is seen in :				
	A)	Acidemia				
	B)	High temperature				
	C)	Decreased 2,3 DPG levels				
	D)	Increased CO ₂				
66.	Wh	ich of the following is the chemical marker of inadequate tissue oxygenation:				
	A)	Arterial Base deficit>2mM/L				
	B)	VO ₂ < 200 ml/ min				
	C)	SVO ₃ <50%				
	D)	SAO ₂ SVO ₂ > 50 %				
67	т					
0/.	The aqueous epinephrine dilution used in Asystole/PEA is:					
	A)	1: 100				
	B)	1: 1000				
	C)	1: 10,000				
	D)	1:100,000				
68.	The drug of choice in Torsade De Pointes is :					
	A)	Procainamaide				
	B)	Magnesium				
	C)	Sotalol				
	D)	Qunidine				
69.	The group of drugs that is commonly known as Superaspirins is:					
	A)	Thienopyridines				
	B)	Heparin				
	C)	Glycoprotien receptor antagonist				
	D)	Thrombolytic agents				
70.		ombotic Microangiopathy is a clinical disorder that is encountered in :				
	A)	Thalassemia				
	B)	Sickle Cell anemia				
	C)	Von Willebrand disease				
	D)	HELLP syndrome				

- 71. The effect of age on Normal A-a gradient is:
 - A) Increases with age
 - B) Decreases with age
 - C) Age has no effect on A- a gradient
 - D) Shows a biphasic rise and then declines
- 72. Which measures is important for preventing Ventilator associated pnemonia:
 - A) Frequent Endotracheal suctioning
 - B) Oral Decontamination
 - C) Inflation of the cuff to pressure > 35 mm Hg to prevent secretions goin to trachea
 - D) Frequent Nebulizations with antibiotics
- 73. Urinary spot Sodium (Na) < 20 mEq/L is indicative of:
 - A) Renal disorder
 - B) SIADH
 - C) Pre renal disorder
 - D) Acute tubular Necrosis
- 74. Calculate the plasma osmolality of a patient admitted in ICU, the following values are given:
 - Na- 140 mEq; Glucose 90 mg/dl; BUN 14 mg/dl;
 - A) 300 mOsm/ kg H₂O
 - B) 250 mOsm/ kg H, O
 - C) 290 mOsm/ kg H₂O
 - D) 400 mOsm/ kg H₂O
- 75. A 67 year old patient is scheduled to undergo parathyroidectomy. The patient is hypercalcemic with a serum of 20 mg/dl. Anesthetic considerations for this patient include:
 - Careful titration of neuromuscular blocking agents
 - II. Hydration with normal saline and use of diuretics to maintain urine output
 - III. Hypoventilation to decrease ionized calcium levels
 - IV. Careful layngoscopy in view of risk of vertebral compression
 - A) I,II,III are correct
 - B) I.II.III and IV are correct
 - C) II, III, IV are correct
 - D) I,II and IV are correct

76.	Anatomical location of musculocutaneous nerve in the upper forearm is most frequently found within which muscle:					
	A)	Coracobrachialis				
	B)	Triceps Brachii				
	C)	Brachialis				
	D)	Biceps Brachii				
77.		expression that for a fixed mass of gas at constant temperature, the product of pressure volume is constant is known as				
	A)	Graham's law				
	B)	Charles' law				
	C)	Boyle's law				
	D)	Dalton's law				
		ing the laparoscopic cholecyatectomy, there is sudden reduction of oxygen saturation ig with low EtCO ₂ on capnograph. Which of the following will provide the earliest mosis for air embolism in such situation:				
	A)	Measurement of lung compliance				
	B)	Precordial Doppler				
	C)	Pulse Oximeter				
	D)	Oesophageal stethoscope				
79.	Son	Sonographically, the adductor canal block is best determined by identification of:				
	A)	Quadriceps femoris and Piriformis				
	B)	Adductor longus and adductor Brevis				
	C)	Sartorius and Vastus medialis				
	D)	Adductor Brevis and Adductor Magnus				
80.	The vessel rich group receives following percentage of the cardiac output:					
	A)	10 %				
	B)	25 %				
	C)	15 %				
	D)	75%				

81.	The oxygen supply failure alarm will sound with in 5 seconds when the oxygen pressure falls below:					
	A)	55 psig				
	B)	45 psig				
	C)	30 psig				
	D)	75 psig				
82.	The	flow meters in the anaesthesia workstations are also known as:				
	A)	Constant pressure flow meters				
	B)	Constant velocity flow meters				
	C)	Constant density flow meters.				
	D)	Constant radius flow meters.				
83.	Maplesons systems are inefficient in relation to :					
	A)	Low resistance to gas flows.				
	B)	Conservation of heat and moisture.				
	C)	Relatively small and fewer parts.				
	D)	No degradation of volatile anaesthetic agents.				
84.	The	interaction between propofol and midazolam is :				
	A)	Additive.				
	B)	Potentiation of effects one drug.				
	C)	Synergistic,				
	D)	Inhibition of effects of one drug.				
85.	Fentanyl belongs to which group of opioid:					
	A	Diphenylpropylamine derivative				
	B.	Benzomorphan derivative				
	C.	Morphinan derivative				
	D.	Phenylpiperideine derivative				

(55) (A)

- 86. Pain assessment of a sedated patient on ventilator in ICU is done by utilizing the following pain sacle:
 - A) Numerical Ranking scale
 - Behavioral pain scale
 - C) Visual Anlogue scale
 - D) Defense and Veterans pain scale
- 87. 15 years old male undergoes craniotomy for fronto temporal tumour lasting 5 hours, received 3 L of NS, extubated, conscious, receiving oxygen by venturi mask, haemodynamically stable with good urine output. An ABG in ICU was as follows

pH - 7.22/ PCO_2 - 34.7 mm Hg / pO_2 - 181.5 mm Hg / HCO_3 -16.7 mEq/L / SaO_2 99.6%

Na - 135 mEq/L/ K - 3.9 mEq/L/Cl - 110 mEq/L/Lactate - 2.0 mmol/L

The ABG picture is that of:

- A) Partially compensated Respiratory Acidosis
- B) Partially Compensated Metabolic Acidosis
- C) Non Anion Gap metabolic Acidosis
- D) High Anion Gap Metabolic Acidosis
- 88. Which of the following is the best evidence in evaluating the study quality in the "Evidence Pyramid":
 - A) Meta Analysis
 - B) Systematic review
 - C) Randomized controlled trial
 - Clinically apprised literature evidence based practice guidelines
- 89. Which of the following valves prevents transfilling between compressed-gas cylinders?
 - A) Fail-safe valve
 - B) Check valve
 - Pressure-sensor shutoff valve
 - Adjustable pressure-limiting valve

- 90. A 8 year old child who underwent herniotomy under general anesthesia developed laryngospasm at the time of removal of supraglottic airway device. The jaw thurst and CPAP of 5 cm of H₂ O failed to relieve the laryngospasm. The following dose of intravenous (IV) succinylchilne can be employed to achieve the skeletal muscle relaxation:
 - A) 2-3 mg/kg body weight
 - B) 1.5-2 mg/kg Body weight
 - C) 0.1-1 mg/kg Body weight
 - D) 5 mg/kg body weight
- 91. When used as an adjuctive procedure, a cuff leak test performed in edema or hematoma, reintubation is usually required in:
 - A) No percentage difference between exhaled volume before and after cuff deflation
 - B) High percentage difference between exhaled volume before and after cuff deflation
 - C) Less percentage difference between exhaled volume before and after cuff deflation
 - High percentage of the exhaled tidal volume
- 92. Non invasive positive pressure ventilation is relatively contraindicated in :
 - A) Life threatening arrhythmias
 - B) Cardiogenic pulmonary edema
 - C) Chronic Respiratory Failure
 - Post operative patients with obstructive sleep apnea (OSA)
- 93. APFEL score is an assessment tool to assess the patients at risk for:
 - A) Post operative pain score
 - B) Post operative nausea and Vomiting
 - C) Post operative shivering
 - D) Post operative urinary retention
- 94. Patients with known or suspected airborne infections should be kept in:
 - A) Positive pressure rooms
 - B) General wards
 - C) Negative pressure rooms
 - D) Emergency room
- 95. During setting up of an Intravenous patient controlled analgesia system (IV- PCA), an inadvertently set long lock out period may lead to:
 - A) Overdose of the analgesic
 - B) Adequate Analgesia
 - C) Respiratory depression
 - D) Inadequate analgesia

96.	The	following drug has hydrophilic property:	
	A)	Fentanyl	
	B)	Sufentanil	
	C)	Morphine	
	D)	Clonidine	
97.	Catl	neter incision - congruent analgesia results in:	
	A	Increased pain	
	В	Early removal of the epidural catheter	
	C.	Inferior analgesia and side effects	
	D.	Superior analgesia and less side effects	
98.	The	yield energy of lipids is :	
	A)	9.1 kcal/gm	
	B)	3.4 kcal/gm	
	C)	5kcal/gm	
	D)	2kcal/gm	
99.	The	use of feeding formulas that influence the inflammatory resp	onse is known as :
	A)	Immune modulation	
	B)	Immuno supplementation	
	C)	Immunonutrition	
	D)	Immunoprotection	
100.		regeneration or peaking effect is usually seen with:	
	A)		
	B)	Soda lime	
	C)	Vasopressors	
	D)	Thiopentone	

ROUGH WORK

(55) (A)

Booklet Serial No.

211133

Test Booklet Series

CASUALTY MEDICAL OFFICER/CASUALTY MEDICAL OFFICER CENTRAL CASUALTY SERVICES

Written Test - 2023

(58)

Time Allowed: Two Hours

Maximum Marks: 100

INSTRUCTIONS

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
- You have to enter your Roll Number on the Test Booklet in the Box provided alongside.

DO NOT write anything else on the Test Booklet.

- 4. This Test booklet contains 100 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
- All items carry equal marks.
- Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer /Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- 9. Sheets for rough work are appended in the Test Booklet at the end.
- While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- 11. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

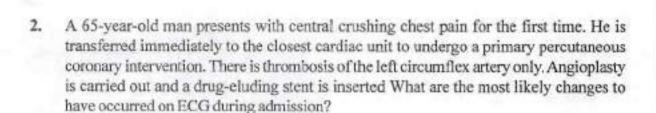
(58) (A)/2023

P.T.O.

BELTIS

(58) (A)

1.	You see a 47-year-old man in clinic with a three-month history of epigastric dull abdominal pain. He states that the pain is worse in the mornings and is relieved after meals. On direct questioning, there is no history of weight loss and the patient's bowel habits are normal. On examination, his abdomen is soft and experiences moderate discomfort on palpation of the epigastric region. The most likely diagnosis is:				
	A)	Gastro-esophageal reflux disease (GERD)	8		
	B)	Duodenal ulcer			
	C)	Gastric carcinoma			
	D)	Gastritis			



- A) ST depression in leads V1-4
- B) ST elevation in leads V1-6
- C) ST elevation in leads V5-6
- D) ST elevation in leads II, III and AVF
- 3. A 67-year-old man presents to accident and emergency with a 3-day history of shortness of breath. On examination you palpate the radial pulse and notice that the patient has an irregular heart beat with an overall rate of 140 bpm. You request an electrocardiogram (ECG) which reveals that the patient is in atrial fibrillation. Which of the following would you expect to see when assessing the JVP?
 - A) Raised JVP with normal waveform
 - B) Large 'v waves'
 - C) Cannon'a waves'
 - D) Absent 'a waves'

- 4. A 48-year-old woman has been diagnosed with essential hypertension and was commenced on treatment three months ago. She presents to you with a dry cough which has not been getting better despite taking cough linctus and antibiotics. You assess the patient's medication history. Which of the following antihypertensive medications is responsible for the patient's symptoms?
 A) Amlodipine
 - B) Lisinopril
 - C) Frusemide
 - D) Atenolol
- 5. A 61-year-old man presents with a 2-hour history of moderately severe retrosternal chest pain, which does not radiate and is not affected by respiration or posture. He complains of general malaise and nausea, but has not vomited His ECG shows ST segment depression and T wave inversion in the inferior leads. Troponin levels are not elevated He has already been given oxygen, aspirin and intravenous GTN; he is an occasional user of sublingual GTN and takes regular bisoprolol for stable angina What would be the most appropriate next step in his management?
 - A) IV low-molecular weight heparin
 - B) Thrombolysis with alteplase
 - C) IV nicardapine
 - D) Angiography with stenting
- 6. A 56-year-old man presents to the accident and emergency department with a 2-hour history of central chest pain radiating to the left arm. He is anxious, nauseated and sweaty. His pulse rate is 120/minute in sinus rhythm and the ECG reveals ST elevation in leads II, III and aVF. The troponin level is significantly raised This is certainly acute MI. Which is the most likely coronary vessel to be occluded?
 - A) Circumflex artery
 - B) Left anterior descending artery
 - C) Right coronary artery
 - D) Left main coronary artery

7.	A 29-year-old woman goes to see her GP complaining of fatigue and palpitations. She says she has also lost weight, though without dieting. On examination, her pulse rate is approximately 120/min and irregularly irregular. Her blood pressure is 142/89 mmHg and her body mass index is 19. There are no added cardiac sounds. The ECG confirms the				
	257	mosis of atrial fibrillation. What would you suggest as the most useful next estigation?			
	A)	Thyroid function tests (TSH, free T4)			
	B)	ECG			
	C)	Chest x-ray			
	D)	Fasting blood sugar			

8. A 57-year-old man is reviewed in a hypertension clinic, where it is found that his blood pressure is 165/105 mm Hg despite standard doses of amlodipine, perindopril, doxazosin and bendroflumethiazide. Electrolytes and physical examination have been, and remain, normal. Which of the following would be your next stage in his management?

A) Arrange for his medication to be given under direct observation

B) Arrange urinary catecholamine assays

C) Request an adrenal CT scan

D) Add verapamil to his medication

9. A 67-year-old woman is admitted to accident and emergency with pyrexia (38.1°C) and a cough productive of green sputum. The observations show a pulse rate of 101, BP 80/60 and respiratory rate of 32. She is alert and orientated in space and time. Blood results reveal a WCC of 21, urea of 8.5 and chest x-ray shows a patch of consolidation in the lower zone of the right lung. She is treated for severe community-acquired pneumonia Which of the following is the correct calculated CURB-65 score?

A) 6

B) 8

C) 4

D) 1

- 10. Which of the following organisms would typically be found in a patient with atypical community-acquired pneumonia?
 - A) Staphylococcus aureus
 - B) Pseudomonas spp.
 - C) Streptococcus pneumonia
 - D) Legionella pneumophilia
- 11. You are asked to interpret an arterial blood gas of a 76-year-old patient who was admitted to accident and emergency with an acute onset of breathlessness and low oxygen saturations. The test was taken on room air and read as follows: pH 7.37, PO2 7.8, PCO2 4.1, HCO3 24, SO2 89 per cent. Choose the most likely clinical interpretation from these arterial blood gas results:
 - A) Compensated respiratory acidosis
 - B) Type 1 respiratory failure
 - C) Compensated respiratory alkalosis
 - D) Type 2 respiratory failure
- 12. A 45-year-old woman with unexpected weight loss, loss of appetite and shortness of breath presents to you in clinic On examination, there is reduced air entry and dullness to percussion in the right lung. A pleural tap is performed and the aspirate samples sent for analysis. You are told that the results reveal a protein content of >30 g/L. From the list below, select the most likely diagnosis:
 - A) Bronchogenic carcinoma
 - B) Congestive cardiac failure
 - C) Liver cirrhosis
 - D) Nephrotic syndrome
- 13. You see a 46-year-old man who has presented to accident and emergency with an acute onset of shortness of breath. Your registrar has high clinical suspicion that the patient is suffering from a pulmonary embolism and tells you that the patient's ECG has changes pointing to the suspected diagnosis. From the list below, which of the following ECG changes are classically seen?
 - A) Inverted T-waves in lead I, tall/tented T-waves in lead III and flattened T-waves in lead III
 - B) Deep S-wave in lead I, pathological Q-wave in lead III and inverted T-waves in lead
 III
 - No changes in lead I, deep S-wave in lead III
 - D) Deep S-wave in lead I with no changes in lead III

- 14. A 30-year-old man presents to your clinic with a cough and finger clubbing. From the list below, which of these answers is not a respiratory cause of finger clubbing?
 - A) Empyema
 - B) Bronchogenic carcinoma
 - C) Cystic fibrosis
 - D) COPD
- 15. A 68-year-old woman has presented with acute onset shortness of breath 24 hours after a long haul flight. Her blood results show a raised D-dimer level and the arterial blood gas shows a PO2 of 8.3 kPa and PCO2 of 5.4 kPa. Your consultant suspects a pulmonary embolism and the patient needs to be started on treatment while a CT-PA is awaited From the list below, please select the most appropriate treatment regime.
 - Commence loading with warfarin and aim for an international normalized ratio (INR) between 2 and 3
 - B) Aspirin 75 mg daily
 - C) Prophylactic dose subcutaneous low molecular weight heparin + loading with warfarin and aim for INR between 2 and 3
 - Treatment dose subcutaneous low molecular weight heparin + loading with warfarin and aim for INR between 2 and 3
- 16. You see a 56-year-old man who was admitted for an elective upper GI endoscopy due to longstanding Gastro Esophageal Reflux Disease (GERD) which has failed to improve on antacids and PPIs. You suspect that this patient may have Barrett's esophagus. The most appropriate description of Barrett's esophagus is:
 - Metaplasia of the squamous epithelium of the lower third of the esophagus to columnar epithelium
 - Metaplasia of the columnar epithelium of the upper third of the esophagus to squamous epithelium
 - Metaplasia of the columnar epithelium of the lower third of the esophagus to squamous epithelium
 - Metaplasia of the squamous epithelium of the middle third of the esophagus to columnar epithelium

- 17. A 35-year-old woman presents with a 24-hour history of watery diarrhoea. She has opened her bowels nine times since the onset of her symptoms. You diagnose gastroenteritis after learning that the patient and her family all ate at a new restaurant and the rest of her family have had similar problems. The most appropriate management is:
 - A) Oral rehydration advice, anti-emetics and discharge home
 - B) Oral antibiotic therapy and discharge home
 - C) Admission for intravenous fluid rehydration
 - Admission for intravenous antibiotic therapy
- 18. Which of the following organisms is not responsible for causing blood-stained diarrhoea?
 - A) Salmonella spp.
 - B) Escherichia coli
 - C) Shigella spp.
 - D) Stapylococcus spp.
- 19. A 49-year-old woman presents with jaundice and abdominal pain. She has a past medical history of gallstones and you suspect this is a recurrence of the same problem. The most appropriate imaging investigation for her will be:
 - A) Abdominal x-ray
 - B) Abdominal ultrasound
 - C) Magnetic resonance imaging (MRI)
 - Endoscopic retrograde cholangiopancreatography (ERCP)
- 20. A 60-year-old man with alcoholic liver disease was admitted with an upper GI bleed secondary to oesophageal varices. The patient undergoes endoscopic variceal banding and is discharged after 2 weeks. Which of the following medications would act as prophylaxis in preventing a rebleed from his oesophageal varices?
 - A) Amlodipine
 - B) Ramipril
 - C) Propranolol
 - D) Irbesartan

21.		You see a 56-year-old man in your clinic with suspected alcoholic liver disease. Liver				
	function tests reveal a bilirubin of 36 IU/L, AST of 150 IU/L, ALT 75 IU/L and ALP 100 IU/L. Which of the following blood test parameters would support a diagnosis of alcoholic-related liver disease?					
	A)	Normal mean cell volume (MCV)				
	B)	Normal mean cell haemoglobin (MCH)				
	C)	LowMCH				
	D)	RaisedMCV				

22. A 47-year-old man presents with complaint of weight gain. On examination, there is abdominal distension with a fluid thrill. Which of following is not a cause of ascites secondary to venous hypertension?

- A) Congestive heart failure
- B) Cirrhosis
- C) Budd-Chiari syndrome
- D) Nephrotic syndrome

23. Which of the following tumour markers are elevated in hepatocellular carcinoma?

- A) Alpha-fetoprotein
- B) Carcinoembryonic antigen (CEA)
- C) CA 15-3
- D) CA 125

24. A 21-year-old man presents with painless haematuria which he has noticed in the last 3 days. He suffers from type 1 diabetes which is well controlled, but is otherwise fit and healthy. The patient has recently recovered from a mild throat infection. Urine dipstick analysis reveals blood and protein in the urine. The most likely diagnosis is:

- A) Henoch-Schonlein purpura
- B) IgA nephropathy
- C) Diabetic nephropathy
- D) Urinary tract infection (UTI)

25.	A 33-year-old woman presents to accident and emergency with severe'right flank pain. The pain started 3 hours ago and is not constant, occasionally moving towards her right iliac fossa. The patient also feels nauseous and has a low-grade fever. The most appropriate investigation is:			
	A)	Abdominal x-ray		
	B)	Intravenous urography		
	C)	Computed tomography (CT) scan		
	D)	Abdominal ultrasound (US) scan		
26.	proc	8-year-old woman patient who is 13 weeks pregnant presents for an antenatal clinic bintment. The patient feels embarrassed when asked to provide a urine sample and duces enough for a urine dipstick test only which is positive for leukocytes and nitrites. patient denies any symptoms. The most appropriate treatment is:		
	A)	Trimethoprim		
	B)	Quinolone		
	C)	Cephalexin		
	D)	Ampicillin		
27.	A 38-year-old woman presents with a 2-week history of dysuria, haematuria and shortness of breath. She suffers from chronic headaches and has been taking ibuprofen in order to treat them. She has a history of cardiovascular disease in the family and a friend recommended she use aspirin to keep healthy. The most appropriate investigation is:			
	A)	Retrograde pyelography		
	B)	Renal biopsy		
	C)	Antegrade pyelography		
	D)	CT scan of the kidney		

- 28. A 63-year-old woman presents in the emergency with a 3-day history of worsening abdominal pain and mild flank pain. Examination reveals pain in the suprapubic region, but otherwise the abdomen is soft with no masses. The patient denies any other symptoms, such as dysuria, but mentions she has had difficulty passing urine in the last week and is only able to provide a small urine sample which is odorous and bloody. She has no other medical problems, but admits to being a long-term smoker. An ultrasound scan of renal system is most likely to show:
 - A) Bladder dilation
 - B) Ureteral stricture
 - C) Bilateral hydronephrosis
 - D) Renal cancer
- 29. A 49-year-old man presents with a history of difficulty sleeping. He reports feeling increasingly tired and general weakness which he attributes to his poor sleep pattern. Additionally, the patient has noticed he has gained weight and sweats very easily. On examination, the patient has coarse facial features. The most likely diagnosis is:
 - A) Cushing's disease
 - B) Acromegaly
 - C) Hypothyroidism
 - D) Diabetes
- 30. A 42-year-old woman presents with visual disturbances. She reports having double vision which was intermittent initially but has now become much more frequent. In addition, she becomes breathless very easily and experiences palpitations. On examination, raised, painless lesions are observed on the front of her shins and finger clubbing. The most likely diagnosis is:
 - A) De Quervain's thyroiditis
 - B) Thyroid storm
 - Phaeochromocytoma
 - D) Graves' disease

- 31. A 50-year-old man is referred to the diabetes clinic after presenting with polyuria and polydipsia. He has a BMI of 30, a blood pressure measurement of 137/88 and a fasting plasma glucose of 7.7 mmol/L. The most appropriate first-line treatment is:
 - A) Dietary advice and exercise
 - B) Sulphonylurea
 - C) Thiazolidinediones
 - D) Metformin
- 32. A 15-year-old girl complains of headaches which started 6 weeks ago. The headaches initially occurred 1-2 times a week but now occur up to five times a week, they are not associated with any neurological problems, visual disturbances, nausea or vomiting. The girl also reports a white discharge from both of her nipples. She has not started menstruating. The most appropriate investigation is:
 - A) CT scan of head
 - B) MRI scan of brain
 - C) Thyroid function tests
 - D) Serum prolactin measurement
- 33. An 18-year-old man presents to clinic worried about his scant public hair development. Examination reveals undescended testes and plasma testosterone, luteinizing hormone and follicle stimulating hormone were found to be low. A karytotype test was 46, XY. The patient was otherwise well, but during neurological examination struggled during the olfactory test. The most likely diagnosis is:
 - A) Hypogonadotropic hypogonadism
 - B) Klinefelter's disease
 - C) Androgen insensitivity syndrome
 - D) Kallman's syndrome
- 34. A 45-year-old man is diagnosed with Cushing's disease. He undergoes a bilateral adrenalectomy and recovers well from the operation. One year later, he complains of a constant dull headache, peripheral visual disturbances and increasing pigmentation of the skin creases of both hands. The most likely diagnosis is:
 - A) Ectopic ACTH secreting tumour
 - B) Nelson syndrome
 - C) Addison's disease
 - Side effects from iatrogenic steroid intake

- 35. A 19-year-old woman presents with concerns about changes to her facial appearance, in particular her nose and jaw seem quite large, she is also quite sweaty and despite using antiperspirants is finding it difficult to control and is afraid of embarrassment at university. A glucose tolerance test is performed and found to be raised. The most appropriate management would be:
 A) Trans-sphenoidal surgery
 B) Octreotide
 C) Bromocriptine
 - D) Pituitary radiotherapy
- 36. A 45-year-old woman presents to the rheumatology outpatient clinic with a three-month history of stiff hands and wrists. She mentions that the pain is particularly bad first thing in the morning. On examination, the wrists, metacarpophalangeal joints and proximal interphalyngeal joints are swollen and warm. A diagnosis of rheumatoid arthritis is suspected. Which of the following investigations is most specific for confirming the diagnosis?
 - A) X-rays
 - B) Rheumatoid factor levels
 - C) Anti-citrullinated peptide antibody (anti-CCP) levels
 - D) C-reactive protein
- 37. A 75-year-old woman presents to accident and emergency complaining of pain in her knees. She mentions that this has been troubling her for several months. Pain is generally worse in the evenings and after walking. On examination, there are palpable bony swellings on the distal interphalangeal joints of the fingers on both hands. In addition, there is reduced range of movement and crepitus in the knees. What is the most likely diagnosis?
 - A) Rheumatoid arthritis
 - B) Osteoarthritis
 - C) Reactive arthritis
 - D) Gout

38.	38. A 32-year-old man presents to the emergency with a 1-day history of pain in the rig knee. He also mentions that he has had a fever and is feeling generally unwell. C examination, the right knee is swollen, warm and extremely painful to move. What is the most appropriate next step?					
	mos	t appropriate next step?				
	A)	X-rays of the right knee				
	B)	Aspiration of the joint and blood cultures				
	C)	Referral for physiotherapy				
	D)	Immobilize the joint				
39.	the redu show	4-year-old woman presents to the emergency with sudden onset pain and swelling in left knee. On examination, she is apyrexial and the left knee is swollen. There is seed range of movement in the knee due to swelling and pain. X-ray of the right knee ws chondrocalcinosis. Microscopy of the fluid aspirated from the joint is most likely now:				
	A)	Rhomboidal, weakly positively birefringent crystals under polarized light microscopy				
	B)	Needle-shaped negatively birefringent crystals under polarized light microscopy				
	C)	Atypical mononuclear cells				
	D)	Tophi				
40.	oste	0-year-old woman with a history of vertebral crush fractures presents to the oporosis outpatient clinic. Which of the following investigations is most useful to set the extent of her osteoporosis?				
	A)	Spinal x-rays				
	B)	MRI scan				
	C)	Vitamin D levels				
	D)	DEXA scan				
(58)	(A)	(14)				

- 41. A 30-year-old woman presents to the hospital with a 1-week history of progressive shortness of breath and fever. On further questioning, she mentions that her hands have been painful and stiff over the past few months and she has been having recurrent mouth ulcers. Chest x-ray confirms bilateral pleural effusions and blood tests reveal a raised ESR and a normal CRP. What is the most likely diagnosis?
 - A) Systemic lupus erythematosus
 - B) Systemic sclerosis
 - C) Sjögren's syndrome
 - D) Beçhet's disease
- 42. A 27-year-old woman presents to the emergency complaining of sudden onset shortness of breath, right-sided pleuritic chest pain and haemoptysis. She has a past medical history of three miscarriages and a deep venous thrombosis in the right leg. CTPA confirms a large pulmonary embolism. A diagnosis of anti-phospholipid syndrome is suspected and a full autoantibody screen is sent. Which of the following auto-antibodies would confirm the diagnosis if detected?
 - A) Anti-cardiolipin antibody
 - B) Anti-nuclear antibody
 - C) Anti-mitochondrial antibody
 - Anti-histone antibody
- 43. A 30-year-old man presents to accident and emergency with oral ulcers, genital ulcers and painful legs. On examination, there are apthous ulcers in the mouth, genital ulceration, erythema nodosum over the shins. He is admitted under the medical team on call and a skin pathergy test is positive. What is the most likely diagnosis?
 - A) Henoch-Schönlein purpura
 - B) Berger's disease
 - C) Caplan's syndrome
 - D) Behçet's disease

- 44. A woman with BO positive blood and her partner with AB positive blood have a child together. Which of the following cannot be the child's blood type?

 A) AB positive

 B) AO positive

 C) AA positive
- 45. A 22-year-old woman presents with a 1-day history of a painful right leg which is erythematous on appearance and tender on palpation. She states that she has had this problem many times in the last few years and her family has also suffered from similar problems. Her grandmother died of a pulmonary embolism. The most likely diagnosis
 - A) Antithrombin deficiency
 - B) Factor V Leiden mutation
 - C) Protein S deficiency

BB negative

D)

- D) Protein C deficiency
- 46. A 43-year-old woman suffers from Crohn's disease. A blood test shows the following results: a) Haemoglobin 10.5 g/dL b) MCV 120 fL c) Platelet count 300×109/L. The most likely diagnosis is:
 - A) Vitamin B12 deficiency
 - B) Iron deficiency
 - C) Hypothyroidism
 - Folic acid deficiency
- 47. A 29-year-old woman complains of a 1-week history of weakness and malaise, she has recently become a vegetarian and eats mostly green vegetables and drinks lots of tea during the day. She is apyrexial and has a C-reactive protein (CRP) <5. You suspect an abnormality of the patient's iron stores. What is the most appropriate investigation to determine iron store levels?</p>
 - A) Bone marrow biopsy
 - B) Serum ferritin
 - C) Total iron binding capacity
 - D) Serum iron

- 48. A 65-year-old man presents with a chronic history of headaches and occasional dizziness. He hesitantly mentions that he experiences severe pruritus, especially after hot showers and baths. Blood pressure is 160/85 mmHg. A full blood count (FBC) reveals a haemoglobin of 20 g/dL, MCV of 94 fL, platelet count of 470 × 109/L and WBC count of 7.8 × 109/L. The most likely diagnosis is:
 - A) Polycythemia vera
 - B) Idiopathic erythrocytosis
 - C) Essential thrombocythaemia
 - D) Chronic myeloid leukaemia
- 49. A 27-year-old woman who suffers from rheumatic mitral stenosis develops atrial fibrillation. She is placed on warfarin therapy. What is the most appropriate target international normalized raio (INR) range?
 - A) <1.0</p>
 - B) 1.0-2.0
 - C) 2.0-3.0
 - D) 3.0-4.0
- 50. A 44-year-old woman presents with recurrent fever, pallor, malaise and shortness of breath. She has noticed a petechial rash on her skin and small bruises on her arms. A blood test reveals a pancytopenia. During examination, you palpate a large spleen. Which investigation would differentiate between hypersplenism and aplastic anaemia?
 - A) Reticulocyte test
 - B) Direct Coombs test
 - C) Ham's test
 - D) Osmotic fragility test
- 51. A 23-year-old man is stabbed in the neck. Once stabilized, his MRI shows a right hemisection of the cord at C6. What is the expected result of this injury?

(17)

- A) Paralysed diaphragm
- B) Absent sensation to temperature in the left hand
- Paralysis of the left hand
- D) Brisk right biceps reflex

- 52. A 19-year-old woman collapses at a concert and is witnessed to have a tonic-clonic seizure lasting 2 minutes. When the paramedics arrive and ask her questions, she mumbles but no-one can understand what she is saying. Only when the paramedic applies pressure to her nailbed does she open her eyes and reach out with her other hand to rub her nail and then push him away. What is her Glasgow Coma Scale (GCS)?
 - A) 11
 - B) 10
 - C) 9
 - D) 8
- 53. A 42-year-old woman presents with ataxia. Gadolinium-enhanced MRI reveals multiple subcortical white matter lesions as well as enhancing lesions in the cerebellum and spinal cord. She is diagnosed with MS. Two months later she develops optic neuritis. What feature is associated with a milder disease course?
 - A) Her initial presentation of ataxia
 - B) Her female gender
 - The interval between the two episodes of two months
 - D) Her MRI scan appearance
- 54. A 71-year-old right-handed male is brought in by ambulance at 17:50 having suffered a collapse. His wife came home to find him on the floor unable to move his right arm or leg and unable to speak. Her call to the ambulance was logged at 17:30. He has a past medical history of well-controlled hypertension, ischaemic heart disease and atrial fibrillation for which he is on warfarin. He had a hernia repair three months ago and his brother had a 'bleed in the brain' at the age of 67. What is the absolute contraindication to thrombolysis in this male?
 - A) Family history of haemorrhagic stroke
 - B) Time of onset
 - C) Current haemorrhagic stroke
 - D) Warfarin treatment

55.	A 33-year-old woman attends her six-month follow-up appointment for headache. They are migrainous in nature but whereas she used to have them every few months, over the last three months she has experienced a chronic daily headache which varies in location and can be anywhere from 3-7/10 severity. Her last migraine with aura was two months ago. She takes co-codamol qds and ibuprofen tds. What is the best medical management?					
	A)	Stop all medication				
	B)	Start paracetamol				
	C)	Start sumatriptan				
	D)	Start propranolol				
56.	year	old diabetic male. The	a lower limb peripheral neurological exa- ne patient has normal tone, 5/5 power, no you notice that the patient does not respo e of the right lower leg. Which dermatome	rmal plantars and and to any sensory		
	A)	L2				
	B)	L3				
	C)	L4				
	D)	L5				
57.	and	A 55-year-old woman complains of double vision. She finds that she is tired all the time and has difficulty climbing stairs. She has difficulty getting items off high shelves at work. Reflexes are absent but elicited after exercise. Shoulder abduction is initially 4-5 but on repeated testing is 4+/5. What pathology is associated with this female's diagnosis?				
	A)	Thyrotoxicosis				
	B)	Peptic ulcer				
	C)	Stroke				
	D)	Lung cancer				
58.	A neurologist is examining a patient. She takes the patient's middle finger and flicks the distal phalanx, her thumb contracts in response. What sign has been elicited?					
	A)	Chvostek's				
	B)	Glabellar				
	C)	Hoffman's				
	D)	Babinksi's		7		
(58) (A)		(19)	[P.T.O.		

- 59. A 69-year-old man is taken to his GP by his concerned wife. She complains that he has not been himself for the last year. He has slowly become withdrawn and stopped working on his hobbies. Now she is concerned that he often forgets to brush his teeth. She has noticed he sometimes struggles to find the right word and this has gradually become more noticeable over the last couple of months. She presented today because she was surprised to come home to find him naked and urinating in the living room last week. He has a history of hypertension and is an ex-smoker. The most likely diagnosis is:
 - A) Depression
 - B) Frontotemporal dementia
 - C) Alzheimer's disease
 - D) Vascular dementia
- 60. A 19-year-old man is admitted with a GCS of 12. He was doing push-ups when he complained of a sudden-onset, severe headache and collapsed. What would you expect on his CT?
 - A) Midline shift
 - B) Crescent-shaped haematoma
 - Blood along the sulci and fissures
 - D) Intraventricular blood
- 61. A 45-year-old man presents with a 5-day history of progressive tingling and numbness of his hands and feet. He insists that he has never had this problem before and that he was perfectly fine a week ago. Over the last 2 days he has had some difficulty walking but mostly he complains about difficulty rolling up cigarettes. On examination, there is mild symmetrical distal weakness, mild gait ataxia and dysdiadochokinesia. He smokes 30 cigarettes a day and drinks 1-2 bottles of wine. He has a family history of hypertension and his 63-year-old mother has type 2 diabetes, whom over the last year has complained of numbness and burning in her feet. He self-discharges. A week later, his symptoms have peaked. He displays moderate distal weakness and numbness to his knees, after which he turns a corner and his symptoms start to slowly resolve. What is the diagnosis?
 - A) Alcoholic neuropathy
 - B) Chronic idiopathic demyelinating polyneuropathy
 - C) Charcot Marie Tooth disease
 - D) GBS
- (58) (A)

- 62. A 60-year-old man with metastatic adenocarcinoma of the lung, who has finished two cycles of palliative cisplatin/pemetrexed chemotherapy, presents with a 2-day history of fever and lethargy. On examination, he is pyrexial with a temperature of 38.8°C. What is the most appropriate next step?
 - A) Blood cultures
 - B) Urgent full blood count
 - C) Urgent chest x-ray
 - D) Prescribe paracetamol
- 63. A 50-year-old woman presents to accident and emergency complaining of excessive lethargy. In addition, she mentions that she has been constipated. On examination, there are clinical features of dehydration. Blood tests have revealed a corrected calcium of 3.3 mol/L. Her chest x-ray shows bilateral streaky shadowing throughout both lung fields. She is given 3 L of saline in 24 hours after admission. The following day her blood tests are repeated and her corrected calcium level is now 3.0 mmol/L. Results of parathyroid hormone levels and thyroid function tests are still awaited. What is the most appropriate management?
 - A) Intravenous saline rehydration
 - B) Intravenous saline rehydration and pamidronate
 - C) Calcitonin
 - Intravenous saline rehydration plus calcitonin
- 64. A 22-year-old man with testicular cancer has undergone an inguinal orchidectomy. Histology has confirmed teratoma. A preoperative CT staging scan has shown involvement of the para-aortic lymph nodes. Which of the following treatments is the best postoperative option?
 - A) Chemotherapy (bleomycin, etoposide, cisplatin)
 - B) Lymph node dissection
 - Radiotherapy to affected lymph nodes
 - D) Chemo-radiotherapy

- 65. A 62-year-old electrician has presented to accident and emergency with a sudden decline in his exercise tolerance. He mentions that he can only walk 5 yards and that he has had a persistent cough with some haemoptysis over the previous month. A chest x-ray confirms a right-sided pleural effusion, which is then drained. A repeat x-ray shows a round shadow in the right perihilar region. Subsequent bronchoscopy and biopsy confirms small cell carcinoma. Which of the following statements is most true about small cell carcinomas of the lung?
 - A) They are sensitive to chemotherapy
 - They are more common than non-small cell lung carcinomas
 - They are not associated with cigarette smoking
 - They most commonly arise from the periphery of the lung
- 66. A 56-year-old man with gastric cancer presents to his GP complaining of a lump in his belly button. On examination, there is a palpable nodule at his umbilicus. This sign is referred to as:
 - A) Sister Mary Joseph nodule
 - B) Krukenberg tumour
 - C) Peutz-Jeghers syndrome
 - D) Paget's disease
- 67. Which of the following cell types are seen in the epidermis?
 - A) Merkel cells
 - B) Melanocytes
 - C) Keratinocytes
 - None of the above cells are present in the epidermis
- 68. A 45-year-old woman with psoriasis has presented with suspicious nail changes. Which one of the following nail changes are associated with psoriasis?
 - A) Koilonychia
 - B) Onycholysis
 - C) Beau's lines
 - D) Clubbing

- 69. A 12-year-old boy who has been suffering from atopic dermatitis for the last ten years presents to you with a 3-day history of severe itching and pus discharge from his left elbow. On examination, you observe lichenification of his left elbow with superimposed excoriations which are weeping a viscous yellow fluid. You take a swab of this discharge. Which one of the following organism growths would you likely expect to be isolated from the swab?
 - A) Corynebacterium spp.
 - B) Streptococcus pyogenes
 - C) Staphylococcus aureus
 - D) Pseudomonas aeruginosa
- 70. A 67-year-old woman presents to you with extensive scalp hair loss which has been getting progressively worse over the last year. You also notice thinning of the eyebrows. The patient's past medical history includes hypertension, left-sided pulmonary embolism one year ago and hypercholesterolaemia. You assess the patient's medication list. Which one of the following drugs could be responsible for causing generalized alopecia?
 - A) Aspirin
 - B) Warfarin
 - C) Simvastatin
 - D) Ramipril
- 71. Contact dermatitis is described as what type of reaction?
 - A) Type I hypersensitivity
 - B) Type II hypersensitivity
 - Type III hypersensitivity
 - Type IV hypersensitivity
- 72. A 24-year-old woman presents to you with a one-month history of intense burning and itch in her buttock area. On examination, you notice patches of small erythematous papulo-vesicular blisters in the patient's buttock area. There is obvious evidence of scratching with some areas of bleeding. The signs are typical of dermatitis herpetiformis. Which one of the following conditions is associated with this dermatological presentation?
 - A) Inflammatory bowel disease (IBD)
 - B) Coeliac disease
 - C) Varicella zoster virus
 - D) Herpes simplex virus

- 73. Which one of the following nutritional deficiencies is the triad of dermatitis, diarrhoea and dementia associated with?
 - A) Vitamin C deficiency
 - B) Protein malnutrition
 - C) Nicotinic acid deficiency
 - D) Vitamin B6 deficiency
- 74. A 56-year-old man presents with two lesions on his neck which have been increasing in size over the last three months. On examination you notice two firm brown-coloured nodular lesions on the anterior aspect of the neck. The nodules give an 'apple-jelly' appearance on diascopy. The patient is systemically well. The most appropriate treatment is:
 - A) Oral flucloxacillin
 - B) Oral rifampicin, pyrazinamide, isoniazid and ethambutol
 - C) IV vancomycin
 - D) Oral erythromycin
- 75. A 63-year-old woman presents to your clinic with a painful wound on her left foot which has not been healing despite regular application of dressings. The patient has a history of peripheral vascular disease. On examination, you observe a 2 × 1 cm well-demarcated ulcer on the left heel of the foot. The ulcer has a 'punched out' appearance and the base appears necrotic. What is the most likely diagnosis?
 - A) Arterial ulcer
 - B) Traumatic ulcer
 - C) Venous ulcer
 - D) Neuropathic ulcer
- 76. A patient on the ward has a nodule-like rash and you are asked by your registrar to define the meaning of a nodule. From the list below, select the most appropriate definition of a nodule.
 - A) A well-defined flat area of altered pigmentation
 - B) A raised flat-topped lesion which is usually greater than 2 cm in diameter
 - A solid lump greater than 0.5 cm in diameter which may be subcutaneous or intradermal
 - D) A well-defined pus-filled lesion

(58)	(A)	(25) [P.T.O.			
	D)	Gonorrhoca			
	C)	Cystitis			
	B)	Genital herpes			
	A)	Chlamydia			
80.	A 22-year-old medical student presents to the Genitourinary Medicine clinic with large amounts of yellow-coloured penile discharge and discomfort on urinating. He has just arrived home from his summer holiday in Ibiza. What is the most likely diagnosis?				
	D)	Prednisolone			
	C)	Isolate the patient and treat conservatively with oral rehydration solution			
	B)	Oral metronidazole			
	A)	Intravenous co-amoxiclav			
79.	A 74-year-old woman patient, who is being treated for chest infection following an elective gastrectomy, develops profuse diarrhoea. A stool sample is collected and microscopy, culture and sensitivity reveal <i>Clostridium difficile</i> toxin. What is the most appropriate treatment?				
	D)	Streptococcus pneumoniae			
	C)	Haemophilus influenzae			
	B)	Klebsiella pneumoniae			
	A)	Mycoplasma pneumoniae			
78.	A 54-year-old investment banker presents to accident and emergency with a 5-day history of productive cough of green sputum, fevers and feeling generally unwell. On examination, there is bronchial breathing in the left lower zone. Chest x-ray demonstrates left lower zone consolidation. What is the most likely causative organism?				
	D)	Livedo reticularis			
	C)	Lipohypertrophy			
	B)	Necrobiosis lipoidica			
	A)	Neuropathic ulcers			
77.	Which one of the following skin changes is not typically seen in patients with diabetes meilitus?				

- 81. A 45-year-old man presents to accident and emergency, having returned from a holiday a week ago. He has subsequently been unwell with nausea and reduced appetite. Over the past 2 days he has become jaundiced. He mentions that his two brothers with whom he went on holiday have also become jaundiced in the last 2 days. On examination, he is apyrexial and there is a palpable liver edge. Liver function tests reveal a raised ALT, AST and bilirubin. All other blood tests are normal. What is the most likely diagnosis?
 - A) Hepatitis A
 - B) Hepatitis B
 - C) Hepatitis C
 - D) Gilbert's syndrome
- 82. Which of the following statements is most accurate regarding leishmaniasis?
 - A) It is transmitted by the anopheles mosquito
 - B) Leishmaniaisis is usually a self-limiting condition
 - C) It is transmitted by the tsetse fly
 - D) The presence of Leishman-Donovan bodies confirms the diagnosis
- 83. A 45-year-old man who lives in a homeless shelter presents to accident and emergency with an itchy rash. The itching is particularly bad at night. On examination, there is a papular rash between the web spaces of the fingers and toes, the palms of the hands and soles of the feet, the axilla and on the genitalia. What is the most likely diagnosis?
 - A) Scabies
 - B) Chicken pox
 - C) Molluscum contagiosum
 - D) Tinea cruris
- 84. A 28-year-old woman is rushed to accident and emergency in a confused state. Her partner reports seeing the patient vomiting and breathing very rapidly before falling ill, at which point he called the ambulance. Empty aspirin packets were found close to the patient, the partner estimates it has been approximately 45 minutes since the patient may have ingested the pills. The most appropriate first line management would be:
 - A) Haemodialysis
 - B) Activated charcoal
 - C) Gastric lavage
 - D) Intravenous fluids and electrolytes

- 85. A 16-year-old boy presents to accident and emergency in a confused state. He appears pale, sweaty and has a heart rate of 110 bpm and temperature of 37°C. Respiratory examination reveals good air entry and a respiratory rate of 12. He is accompanied by a group of friends who admit they had been drinking alcohol earlier and smoking marijuana. They deny he has any medical problems apart from mild asthma and deny ingesting any other recreational substances. Urine dipstick is negative for any significant findings. His blood glucose is 2.1 mmol/L. The most likely cause of the patient's symptoms is:
 - A) Diabetic ketoacidosis
 - B) Ethanol toxicity
 - C) Ecstasy ingestion
 - D) Cannabis toxicity
- 86. A 54-year-old known hypertensive male presented with a 3-day history of shortness of breath. The patient reported feeling unwell with a sharp pain in the left side of the chest and loss of appetite. His clinical findings included a heart rate of 117 bpm, blood pressure of 97/85 mmHg, temperature 37.2°C and a respiratory rate of 22 bpm, Respiratory examination showed reduced air entry and hyper-resonance on percussion. The most likely diagnosis is:
 - A) Tension pneumothorax
 - B) Pneumonia
 - C) Aortic dissection
 - D) Pulmonary embolism
- 87. A 27-year-old woman visits her GP complaining of a fever. She returned from Amazon jungles almost 2 weeks ago and had felt unwell but attributed this to jet lag. After suffering from a fever she rested for 2 days and on recovering returned to work as an accountant. After another 2 days she now reports waking up at night again with a high fever, feeling drowsy and confused. On presentation she appears unwell, pale and sweaty. The most likely diagnosis is:

(27)

- A) Plasmodium falciparum
- B) Plasmodium vivax
- C) Plasmodium malariae
- D) Plasmodium ovale

- 88. A 35-year-old man complains of a three-month history of intermittent excruciating headaches. They are very variable and occur from once a month to three times a week. The headaches are associated with extreme anxiety and sweating. On examination, the patient's blood pressure is 152/95 mmHg and during palpation of the abdomen the patient's skin flushes red. The most likely diagnosis is:
 - A) Cluster headache
 - B) Phaeochromocytoma
 - C) Subarachnoid haemorrhage
 - D) Temporal arteritis
- 89. A 17-year-old boy is rushed to accident and emergency after breathing difficulties in a restaurant. The parents report the patient feeling unwell after eating a cake containing nuts. The patient has swollen lips and tongue and an audible wheeze is heard. The most appropriate first-line treatment is:
 - A) 0.05 mg intravenous adrenaline
 - B) 100 mg intravenous hydrocortisone
 - C) 20 mg intravenous chlorphenamine
 - D) 0.5 mg intramuscular adrenaline
- 90. A 45-year-old woman with haematemesis is admitted to accident and emergency in hypovolaemic shock. She undergoes resuscitation including administration of packed red cells. The blood transfusion centre will not release certain blood products unless a 'massive bleeding' protocol is initiated. Which of the following is not a definition of massive bleeding?
 - A) Blood loss of half the patient's circulating volume in a 3-hour period
 - B) Ongoing blood loss of 100 mL/min
 - Transfusion of 4 units of red cells in 4 hours with continued bleeding
 - D) Transfusion of 10 units of packed red cells in a 24-hour period
- 91. A 65-year-old man with severe pancreatitis is intubated and ventilated in the intensive care unit. His intra-abdominal pressure is measured using a catheter in his bladder connected to manometry. Which one of the following describes the pressure effect seen in abdominal compartment syndrome?
 - A) Bladder pressure of 16-25 mmHg does not require decompression
 - B) Bladder pressure of 26-35 mmHg results in increased cardiac output
 - Bladder pressure of > 35 mmHg does not cause anuria
 - D) Bladder pressure of < 15 mmHg normally has clinical signs

- 92. Which of the following is most likely to shift the oxygen haemoglobin dissociation curve to the left?
 - A) Decreased pH
 - B) Extreme altitude
 - C) Increased PaCO2
 - Increased temperature
- 93. ABO compatibility is advisable for the transfusion of blood products. Which of the following products does not require ABO compatibility?
 - A) Cryoprecipitate
 - B) Fresh frozen plasma
 - C) Haemoglobin solution
 - D) Packed red cells
- 94. An 88-year-old woman with severe chronic obstructive pulmonary disease presents with abdominal distension. A CT shows an obstructing apple core lesion of the sigmoid colon. She is also noted to have bilobar liver metastases. What is the most appropriate first line management?
 - A) Caecostomy
 - B) Colonic stenting
 - C) Hartmann's procedure
 - D) Sigmoid colectomy
- 95. A 22-year-old girl has a suspicious lesion on her right shoulder that requires excision biopsy. Which of the following statements describes the excision margins for malignant skin lesions?
 - A) In pT1 melanoma (0-1 mm thickness) an excision margin of 2 cm is recommended
 - B) In pT4 melanoma (> 4 mm thickness) an excision margin of 2 cm is recommended
 - C) With primary basal cell carcinoma lesions < 2 cm in diameter, an excision margin of 0.5-1.0 cm is recommended
 - With squamous cell carcinoma lesions under 2 cm, a margin of 1 cm is recommended
- 96. Which of the following pathogens are not eradicated by alcohol based hand gels?
 - A) Clostridium difficile
 - B) Escherichia coli
 - C) Klebsiella species
 - D) Methicillin-resistant Staphylococcus aureus

- 97. A 47-year-old woman presents to the emergency department with generalised weakness, fatigue and light headedness. Her routine blood gases show: pH 7.34, pO2 9.4 kPa, pCO2 4.4 kPa, HCO3 22 mmol/L. Serum biochemistry includes Na+ 131 mmol/L, K+ 5.1 mmol/L, and plasma glucose 3.4 mmol/L. What is the most likely diagnosis?
 - A) Addison's disease
 - B) Chronic renal failure
 - C) Diabetic ketoacidosis
 - Exacerbation of chronic obstructive pulmonary disease
- 98. A controlled study is set up to address whether or not patients having single incision laparoscopic cholecystectomy have similar outcomes to standard laparoscopic cholecystectomy. The primary outcome measure is complication rate, estimated at 5% for the standard procedure. To detect a difference of 2.5%, in either direction, it is decided that 200 patients require to be recruited to both arms of the study, with a power of 80%. Which statement best describes the application of statistical principles?
 - A) A significant difference (p-value = 0.05) has a likelihood of being due to chance in 1 in 20
 - All patients should be offered either procedure by the clinician
 - C) If early results show inferiority, the trial continues to allow conclusions to be drawn
 - D) If there is low recruitment, there is a risk of a type I error
- 99. A surgeon would like to know whether patients with thyroid goitres are more or less likely to have been exposed to irradiation during their early years, than those patients without goitres. What is the best study design for this purpose?
 - A) Case-control study
 - B) Environmental study
 - C) Longitudinal cohort study
 - D) Randomised trial of exposure
- 100. A surgeon would like to set up a randomised double-blind controlled trial, examining the efficacy of laparoscopic fundoplication (comparing partial and total wrap). The outcomes are defined and a power calculation performed, and the centre is ready to start recruitment. Which factor is not essential to the validity of the trial?
 - A) Adopting a recognised method for patient allocation and stratification
 - B) Blinding the patients
 - C) Ensuring it represents a more general population
 - D) Having randomisation conducted through a remote site

(58) (A) (31) [P.T.O.



(58) (A)

Booklet Serial No.

Test Booklet Series

213589 TEST BOOKLET LIBRARIAN WITH A DEGREE IN LIBRARY SCIENCE CENTRAL LIBRARY



Written Test - 2023

(68)

Time Allowed: Two Hours

Maximum Marks: 100

INSTRUCTIONS

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
- You have to enter your Roll Number on the Test Booklet in the Box provided alongside.

DO NOT write anything else on the Test Booklet.

- 4. This Test booklet contains 100 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
- 6. All items carry equal marks.
- Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer /Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- Sheets for rough work are appended in the Test Booklet at the end.
- While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- 11. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

(68) (A)

1.	Hyt	orid library deals with
	A)	Print Collection
	B)	Digital Collection
	C)	Both (A) and (B)
	D)	None of the above
2.	Dev	vey Decimal Classification (DDC) is now looked after by?
	A)	UNESCO
	B)	CILIP
	C)	ALA
	D)	OCLC
3.	Wh	ich type of books should be weeded in a library?
	A)	Superseded editions
	B)	Thesaurus
	C)	Dictionary
	D)	Encyclopedia
4.	The	Delivery of Books (Public Libraries) Act, 1954 was not implemented in
	A)	Assam
	B)	Jammu and Kashmir
	C)	Haryana
	D)	Delhi
5.	Who	o invented World Wide Web (WWW)
	A)	Vint Cerf
	B)	Charles Babbage
	C)	Tim Berners-Lee
	D)	Steve Jobs
6.	Acc	ording to Ranganathan, many collections lose its relevance in how many years?
	A)	20 years
	B)	30 years
	C)	40 Years
	D)	50 years

7.	The	word Referral service is most relevant to
	A)	Database search service
	B)	Inter Library Loan
	C)	Information scouting
	D)	Retrospective searching
8.	Wh	ich of the following is an Open-Source Software?
	A)	E-Granthalaya
	B)	SOUL 2.0
	C)	Koha
	D)	LibSys
9.	Sha	nnon and Weaver related to
	A)	Psycho-biology of language An introduction to dynamic philosophy
	B)	Information is data of value to decision making
	C)	Mathematical Theory of Information
	D)	Bradford's Law of Information
10.	Pau	l Otlet and Henri La Fontaine related to
	A)	Sears List of Subject Heading
	B)	Library of Congress Classification System
	C)	UDC
	D)	Dictionary Catalogue
11.	Ben	ne Convention and Universal Copyright Convention was revised in Paris in
	A)	1949
	B)	1952
	C)	1971
	D)	1931
12.	Pete	er A. Phyer related to
	A)	Ranganathan formulated his first law of library from his casual hint.
	B)	Library legislation

C)

D)

Living with book

Zero Based Budget

13. Koha was developed at

- A) Katipo Communications Ltd, New Zealand
- B) University of Waikato, New Zealand
- Massachusetts Institute of Technology (MIT) libraries and Hewlett-Packard labs
- D) Wikimedia Foundation

14. C. W. Hanson

- Categorized information need into current approach, everyday approach, and exhaustive approach.
- Divides documentary sources of information into primary and secondary.
- Divides documentary sources of information into primary, secondary and tertiary.
- Classified documentary sources of information into Conventional, Neo Conventional, Non Conventional and meta document.

15. The First and Oldest University Library was established in British India at

- A) University of Delhi
- B) Calcutta University
- C) Aligarh Muslim University
- D) University of Madras

RDA related to

- A) Classification
- B) Cataloguing
- C) Searching
- D) Browsing

George Kingsely Zipf related to

- A) Psycho-biology of language an introduction to dynamic philosophy
- B) Mathematical Theory of Information
- Information is data of value to decision making
- D) Bradfords Law of Information

WIPO was established by the WIPO Convention in

- A) 1977
- B) 1944
- C) 1954
- D) 1967

19. Denis Grogan

- Categorized information need into current approach, everyday approach, and exhaustive approach.
- B) Divides documentary sources of information into primary and secondary.
- Divides documentary sources of information into primary, secondary and tertiary.
- Classified documentary sources of information into Conventional, Neo Conventional, Non Conventional and meta document.

20. Which of the following is an Institutional Repository Software Package?

- A) Joomla
- B) EPrints
- C) Koha
- D) Drupal

21. First library act was enacted in Great Britain in

- A. 1847
- B) 1850
- C) 1867
- D) 1840

22. Michael Gorman related to

- Application of Ranganathan's Laws to the Web
- B) The disciple of Melvil Dewey who worked in India
- C) Our Singular Strengths
- D) The first librarian of the Imperial Library (now National Library, Kolkata)

23. Dr. Nihar Ranjan Roy related to

- A. Application of Ranganathan's Laws to the Web
- B) The first professionally qualified university librarian in India
- He for the first time in India, DDC and AACR rule introduced
- D) The first librarian of the Imperial Library (now National Library, Kolkata)

24. M. C. Yovits related to

- A) Psycho-biology of language An introduction to dynamic philosophy
- B) Information is data of value to decision making
- Mathematical Theory of Information
- D) Bradfords Law of Information

25.	UN	IMARC was developed by
	A)	UNESCO
	B)	IFLA
	C)	FID

D) Library of Congress

26. Universal Copyright conventions was in

- A) 1949
- B) 1952
- C) 1971
- D) 1931

27. Which of the following is not a Learning Management System (LMS)

- A) Moodie
- B) Claroline
- C) Drupal
- D) ATutor

28. DSpace was developed at

- A) Katipo Communications Ltd, New Zealand
- B) University of Waikato, New Zealand
- Massachusetts Institute of Technology (MIT) libraries and Hewlett-Packard labs
- D) Wikimedia Foundation

29. Melvin J. Voigt

- Categorized information need into current approach, everyday approach, and exhaustive approach
- Divides documentary sources of information into primary and secondary
- C) Divides documentary sources of information into primary, secondary and tertiary
- Classified documentary sources of information into Conventional, Neo Conventional, Non Conventional and meta document.

GSDL was developed at

- A) Massachusetts Institute of Technology (MIT) libraries and Hewlett-Packard labs
- B) Katipo Communications Ltd, New Zealand
- University of Waikato, New Zealand
- D) Wikimedia Foundation

31. Dr. S. R. Ranganathan

- Categorized information need into current approach, everyday approach, and exhaustiveapproach
- B) Divides documentary sources of information into primary and secondary
- Divides documentary sources of information into primary, secondary and tertiary
- Classified documentary sources of information into Conventional, Non Conventional and meta document

32. An Invisible college is a typical example of

- A) Informal channels of communication
- B) Formal channels of communication
- C) Both (A) and (B)
- D) None of the above

33. Who had given the Minimal, Middling and Maximum theories of reference service?

- A) C. M. Winchell
- B) S. R. Ranganathan
- C) James I Wyer
- D) Samuel Rothstein

PERT was developed by

- A) The Navy special project office
- B) Booz Allen Hamelton
- C) Both (A) and (B)
- D) None of the above

35. The term hypertext was coined by

- A) Ted Nelson
- B) Charles Babbage
- C) Tim Berner Lee
- D) Tay Vaughan

The 12 rules for relational database were given by

- A) Larvy Page
- B) Linus Tolward
- C) J. Bill Gates
- D) Edgar. F. Codd

37.	Bib	liographic coupling was first advocated by
	A)	B. K. Sen
	B)	M. M. Kessler
	C)	S. C. Bradford
	D)	S. R. Ranganathan
38.	Mil	lion Book Project was initiated by
	A)	Pittsburg University
	B)	Carnegie Mellon University
	C)	MIT, USA
	D)	Michigan University
39.	The	quotation Where is the Wisdom, We Lost in Knowledge is by
	A)	John Keats
	B)	M. P. Carter
	C)	T. S. Eliot
	D)	Marshall McLuhan
40.	Eme	erald full text Database is published from
	A)	USA
	B)	Germany
	C)	France
	D)	U.K.
41.	Whi	ch national agency in India is assigning the ISBN?
	A)	Raja Ram Mohan Roy National Education Resource Centre
	B)	Delhi Public Library
	C)	Federation of Publishers in India
	D)	National Library of India
42.	The	term Cyberspace was first used by
	A)	Andrew Pollock
	B)	William Gibson
	C)	John Postal
	D)	Joe Flower

13.	The simple Dublin Core Metadata Element Set (DCMES) consists of						
	A)	10 elements					
	B)	15 elements					
	C)	14 elements					
	D)	18 elements					

- 44. Libraries as Gateways to Knowledge is the title of the document of
 - A) National Information Policy, 1986
 - B) Information Technology Act, 2000
 - National Knowledge Commission on Libraries, 2007
 - D) None of the above
- 45. Real Time Access refers to
 - A) Access in advance
 - B) Access after some time
 - Access when searched for
 - D) None of the above
- 46. Theory X and Theory Y relate to
 - A) Planning
 - B) Motivation
 - C) Innovation
 - D) None of the above
- 47. Bibliographical coupling is related to
 - A) Bibliometric studies
 - B) Bibliography compilation
 - C) Modes of subject formation
 - D) Vocabulary control
- 48. WorldCat is maintained by
 - A) Library of Congress
 - B) Online Library Center
 - C) American library Association
 - D) None of the above

many A lapest Oublin Core?							
Alapest							
lapest							
Oublin Core?							
ntent management tool							
Library software							
tadata standard							
rnetProtocol							
ion is							
v data							
v knowledge							
ut data							
anized data							
is a term most relevant to							
ellectual Property Rights							
oks borrowed for home reading							
y right							
of reference books							
ands for							
rld Information and Patents Organ	nization						
rld Intellectual Property Organiza	ation						
rld International Property Organia	zation						
rld Information Protection Organ	ization						
of Information in the sense of pr	oduction is ca	lled					
Information Marketing							
rmation Industry							
rmation Production							
	ormation Industry ormation Production	ormation Industry ormation Production	ormation Industry	ormation Industry ormation Production			

ation society?
mation"?
1

61.	Lib	rary Technology Report is a publication of
	A)	ALA
	B)	IASLIC
	C)	LA
	D)	ILA
62.	Wh	at is a Patent?
	A)	An agreement to the Government
	B)	Document of the library
	C)	An agreement between the inventor and the Government
	D)	An agreement between library and Publisher
63.	Wh	o is the author of "Dictionary of anonymous and pseudonymous literature"
	A)	S. Halkett and J. Laing
	B)	Robert Proctor
	C)	Ralph De sols
	D)	Hanuman Sastri
64.	Cov	er to cover translation is treated as
	A)	Selective dissemination service
	B)	Current awareness services
	C)	On demand services
	D)	Anticipatory services
65.	ME	SH is a
	A)	Thesaurus
	B)	Dictionary
	C)	Journal
	D)	Library
66.	Wha	at are the four entities of FRBR model?
	A)	Personality, Matter, Energy, Space
	B)	Work, Expression, Manifestation, Item
	C)	Book, Form, Availability, Type
	D)	Discipline, Entity, Action, Personality

67.	Wh	o is the Editor in Chief of 22 rd Edition of DDC	
	A)	Benjamin A. Custer	
	B)	John P. Comaromi	
	C)	Winton E. Matthews	
	D)	John S.Mitchell	
68.	"PO	SDCORB" coined by	
	A)	Peter F. Drucker	
	B)	Harold Koontz	
	C)	F.W. Taylor	
	D)	Luther Gulick	
69.	Wh	en Peter F. Drucker defined M.B.O. (Management by Objectives) ?	
	A)	1950	
	B)	1960	
	C)	1954	
	D)	1964	
70.	Who	o said the demand and supply theory of books?	
	A)	Melvil Dewey	
	B)	Dr. S. R. Ranganathan	
	C)	Mc Colvin	
	D)	Sayers	
71.	"То	provide the best books to the maximum readers at the least cost" said by	
	A)	Dr. S. R. Ranganathan	
	B)	P. N. Kaula	
	C)	CE.Mayo	
	D)	Melvil Dewey	
72.	The	ory X and Theory Y is developed by	
	A)	Louis Brandeis	
	B)	Douglas Mc Gregor	
	C)	Abraham Maslo	

	A)	Staffing
	B)	Directing
	C)	Motivation
	D)	Planning
74.	Wh	o is the father of Scientific Management?
	A)	F.W. Taylor
	B)	Harold Koontz
	C)	Peter F. Drucker
	D)	Luther Gulick
75.	CP	M (Critical Path Method) is developed by
	A)	Dupoint Company
	B)	Aircraft Corporation
	C)	IIM
	D)	IBM
76.	Hov	w many digits have in the ISSN
	A)	10
	B)	8
	C)	13
	D)	15
77.	Mea	n, Median and Mode are
	A)	Measures of deviation
	B)	Ways of sampling
	C)	Measures of control tendency
	D)	None of the above
78	Zero	Base Budgeting system was propounded by
	A)	Peter F. Drucker
,		
,		P.N. Kaula
70.	B)	P.N. Kaula E.Mayo

73. Herzberg's theory deals with

79.	Wh	hen Zero Base Budgeting system was first prep	pared				
	A)						
	B)	1960					
	C)						
	D)	1980					
80.		OM is a system of continuous improvement employ intered on needs of the	ying par	ticipati	ve man	agement an	d
	A)	Customers					
	B)	Staff					
	C)	Organization					
	D)	Government					
81.	Ab	oudget which mainly covers items of current rever	nue and	expend	liture is	called .	
	A)	Programme budget		(1) 5 3333			
	B)	Welfare economics					
	C)	Current budgeting					
	D)						
82.	The	e library budget of a university is passed by the?					
	A)						
	B)	Executive Council					
	C)	Academic Council					
	D)	Research Council					
83.	Who	no is the pioneer of open access system in British	librarie	s?			
	A)	Nine E.Brown					
	B)	James Duff Brown					
	C)	John cotton dana					
	D)	S. R. Ranganathan					
84.	Ano	other term of PERT is					
	A)	CPM					
	B)	POSDCORB					
	C)	MBO					

D)

HRM

85.	PO	SDCORB is related to
	A)	Library cataloguing
	B)	Library reference service
	C)	Library administration
	D)	Library automation
86.	Info	ormation Gatekeepers come undersources.
	A)	Documentary
	B)	Human
	C)	Institutional
	D)	Neo-conventional
87.		categorises documents into three types such as primary, secondary an
	tert	iary.
	A)	Grogan
	B)	Skeltor
	C)	Dr. S. R. Ranganathan
	D)	Hanson
88.		is a legal document and can be used as a source of industrial information.
	A)	Report
	B)	Law Review
	C)	Patent
	D)	Specification
89.	PRE	ECIS was developed by Derek Austin for use in the
	A)	BNB
	B)	INB
	C)	ISBD
	D)	ISBN
90.	Who	o is regarded as father of bibliography?
	A)	Paul Otlet
	B)	Conrad Gesner
		J. C. Brunet
	D)	A. C. Fosket

91.		Linear model of communication in knowledge based on Aristotle's model of communication was proposed by							
	A)	Juger Heberman							
	B)	A. J.Wells							
	C)	C. E. Shannon and W. Weaver							
	D)	G. Gerbner							
92.	Libi	ary Legislation refers to the development of							
	A)	Academic Libraries							
	B)	Special Libraries							
	C)	Public Libraries							
	D)	None of the above							
93.	The	marketing concepts in Library Service include							
	Analysis, planning, implementation and control								
	B)	Advertising, planning, analysis and control							
	C)	Distribution, control, analysis, implementation							
	D)	Indexing, planning, control and implementation							
94.		re are a few basic factors which may be applied to winning the hearts of the readers, y are.							
	A)	Psychological factor, environmental factor, social factor							
	B)	Self-factor, psychological factor, service factor							
	C)	Service factor, philosophical factor, self-factor							
	D)	Technological factor, service factor, self-factor							
95.	'Fair	use' is the norm for determining the legality of							
	A)	Producing the second edition of a book							
	B)	Photocopying an entire book							
	C)	Making available a book to another library on inter-library loan							
	D)	Prescribing a book as a text book.							
96.		erally, a reference service of a library in the conventional form is processed through stages which are							
	A)	Preparation, service, assimilation							
	B)	Indexing, orientation, delivery of the query's reply							
	C)	Orientation, user's study, photocopy supplied							
	D)	Preparation, orientation, delivery of the query's reply.							
(68)	(A)	(18)							

97.	and	is a process of helping employees in an organization to acquire new skills competence on a continuing basis
	A)	Total Quality Management
	B)	Management Information System
	C)	Financial Resources Development
	D)	Human Resources Development.
98.	On	which of the following technologies semantic web is not based?
	A)	RDF
	B)	Ontologies
	C)	Cloud seeding
	D)	URI
99.	Wor	rld Wide Web (WWW) was first designed by whom?
	A)	Charles Babbage
	B)	F. W. Lancaster
	C)	Ted Nelson
	D)	Tim Berner's Lee
100.	The	concept of Artificial Intelligence (Al) belongs to
	A)	Second Generation Computers
	B)	Third Generation Computers
	C)	Fourth Generation Computers
	D)	Fifth Generation Computers

(68) (A) (20)

Booklet Serial No.

212921

Test Booklet Series

TEST BOOKLET DENTISTRY

Written Test - 2023

(60)



Time Allowed: Two Hours

Maximum Marks: 100

INSTRUCTIONS

- IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET DOES NOT HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS, ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
- Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer /Response Sheet. Any omission/discrepancy will render the Response Sheet liable for rejection.
- 3. You have to enter your Roll Number on the
 Test Booklet in the Box provided alongside.

 DO NOT write anything else on the Test Booklet.
- 4. This Test booklet contains 100 items (questions). Each item comprises of four responses (answers). You will select the response which you want to mark on the Answer Sheet/Response Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose ONLY ONE response for each item.
- You have to mark all your responses ONLY on the separate Answer /Response Sheet provided. See directions in the Response Sheet.
- All items carry equal marks.
- Before you proceed to mark in the Answer /Response Sheet, the response to various items in the Test Booklet, you have to fill in some particulars in the Answer /Response Sheet as per instructions sent to you with your Admission Certificate.
- 8. After you have completed filling in all your responses on the Response Sheet and the examination has concluded, you should hand over to the Invigilator only the Answer /Response Sheet. You are permitted to take away with you the Test Booklet and Candidate's Copy of the Response Sheet.
- 9. Sheets for rough work are appended in the Test Booklet at the end.
- While writing Centre, Subject and Roll No. on the top of the Answer Sheet/Response Sheet in appropriate boxes use "ONLY BALL POINT PEN".
- 11. Penalty for wrong answers:

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY THE CANDIDATE IN THE WRITTEN TEST (OBJECTIVE TYPE QUESTIONS PAPERS).

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, (0.25) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above for that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO

(60) (A)/2023 [P.T.O.

1.	Thie	ckness of enamel at	the cusps of prei		
	A)	2mm	B)	2.3-2.5mm	
	C)	2.5-3mm	D)	2-2.3mm	
2.	Sali	vary enzymes that co	ontrol plaque are	all EXCEPT	
	A)	Lysozyme	B)	Amylase	
	0.00	Lactoferrin	D)	Lipase	
3.	Sub	surface mineral loss	take place at a p	oH of	
400	A)	5	B)	5.5	
	C)	4	D)	6.7	
4.	Pol	ymerization shrinkaş	ge stress is more	in	
	A)	Class IV	B)	Class III	
	C)	Class II	D)	Class I	
5.	Wh	ich of the following	is not correct ab	out Skirt preparation	
	A)	Increases retention			
	B)	Prepared from prin	nary flare to the	transitional line angle	
	C)	Prepared entirely in			
	D)	Extension of the fa	cial or lingual pr	oximal margin	
6.	Wr	inkles are seen in the	rubber dam wh	en,	
	A)	The hole is too sm	all		
	B)	Off-centered dam			
	C)	Too much distance	e between the ho	oles	
	D)	Too little distance	between the hol	es	
7.			is indirect denta	al stain according to Nathoo's	
		ssification?	B)	N2	
	A)		D)	Both B and C	
	C)				
8.	W			d soft tissue LASER?	
	A)		B)	Er:YAG	
	C)	Nd:YAP	D)	Diode	
9.	He	at application time ir			
	A)	5 seconds	B)	10 seconds	
	C)	12 seconds	D)	15 seconds	

10.	Ac	cording to Ørstavik's Periapical	Inde	x (PAI), Periodontitis with well	-defined				
	A)		B)	Score 3					
	C)	Score 4	D)						
11.	Mo	Innes Solutionis composed of t	the fo	llowing EXCEPT					
	A)	0.2% anesthetic ether	B)	36% HCL					
	C)	20% NaOH	D)	30%H2O2					
12.	Test to determine the integrity of attachment apparatus								
	A)	Mobility test	B)	Palpation test					
	C)	Percussion test	D)	All of the above					
13.	Che	emiclave operates at							
	A)	131F 15lb	B)	270F 20 lb					
	C)	131F 20lb	D)	270F 15lb					
14.	Wh	ich of the following about came	nhore	minone is wrong?					
	A)	Which of the following about camphorquinone is wrong? A) Type 1 photoinitiator							
	B)	表 (- 5. 表 表) () () () () () () () () (
	C)								
	D)								
15.	Bev	el- which is wrong?							
	A)								
	B)	Long bevel includes entire enamel and dentin							
	C)	Eliminates the cement line							
	D)	Hollow ground and counter b	evel i	ncreases the resistance form					
16.	Instrument which is similar to GG drills with a flexible shaft								
	A)	Light speed	B)	Drux burs					
	C)	Peeso reamer	D)	Both (A) and (B)					
17.	The	extent of inflammation of pulp	in th	e first 24 hours after trauma is	1 1 15				
	A)	2mm	B)	3mm					
	C)	2.5mm	D)	4mm	1				
18.	End	otec is used for		stand war aftername					
	A)	Warm lateral condensation	B)	Warm vertical condensation	1				
	C)	Both warm lateral and vertical		Irrigant activation					
(60)	(A)		(4)		STATE OF THE PARTY.				

19.	Whi	ich of the following cor	ntains EDTA			
	A)	Qmix	B)	Te	traclean	
	C)	MTAD	D) Bo	th (B) and (C)	
	CI.	test is done w	iela			
20.		mpagne test is done w		M	ethylene blue	
	A)	NaOCI	B		lorhexine	
	C)	Saline	D) (1	nomexine	
21.	The	percentage of lateral c	anals seen in	n apic	al 3mm is	
	A)	98%	B			
	C)	93%	D	94	%	
		esthesia success of ner	e block is	define	d by 2 consecutive	nonresponsive
22.		ding to electric pulp tes		Jemie	d by 2 consecutive	nomesponsive
	A)	5 minutes	B	10	minutes	
	C)	15 minutes	D	77 - 722.5	minutes	
	٠,	15 minutes		,		12.7
23.	Acc	ording to AAE guideli	nes, which	of the	following is consid-	ered a case of
		derate difficulty				
	A)	Uncomplicated crow	n fracture			
	B)	Complicated crown f	racture of n	nature	teeth	
	C)	Complicated crown f				
	D)	Horizontal root fracti	ıre			
24	TC	E a is released from th	ne dentin by	the	se of	
24.		F-β is released from the				
	A)	EDTA	В	6.	tric acid	
	C)	NaOCl	D) A	I of the above	
25	Hu	man dentin is compose	ed of			
23.		50% organic materia				
	A)	30% organic materia				
	B)					
	C) D)	50% organic materia 30% organic materia				
26.		ich one of the followin	g statement	regar	ding cluster headach	e is least likely
	to l	oe true?				
	A)	Affects midface and				
	B)	Causes nasal stuffine		l flus	hing.	
	C)	Mostly affects elderly	y females.			
	D)	May mimic anterior		oth ac	he.	
		John Wandon Lan	MARKET S			

27.	Per	rioral melanin pigmentation	and inte	stinal polyps are most likely to be seen in?					
	A)	ACTH Therapy	B)						
	C)	Addison's Disease	D)						
28.	Th	ne causative agent for "oculo	glandul	ar syndrome of parinoud" is?					
	A)		B)	Bartonella henselac					
	C)	Mycobacterium leprae	D)	Streptococcus pyogenes					
29.	His	stochemical demonstration of	glycoge	n in the cells can help in the demonstration					
	of '	?	30 3						
	A)	Malignant melanoma							
	B)	Squamous cell carcinoma							
	C)	Kaposi's sarcoma							
	D)	Ewing's sarcoma							
30.	Inv	which one of the following po	erineura	I invasion is most commonly seen?					
	A)	Adenocarcinoma							
	B)	Adenoid Cystic Carcinom	a						
	C)	Basal cell adenoma							
	D)	Squamous cell Carcinoma	HS .						
	teet imp	eals multiple hard swellings i h are noticed.Radiograph re	nvolvin veals m	e swelling of the jaws. Clinical examination g the jaws and intraorally several missing ultiple radiopaque lesions with multiple tive of Gardner syndrome. The mentioned					
	A)	X-Linked dominant	B)	X-linked Recessive					
	C)	Autosomal dominant	D)	Autosomal recessive					
32.	Inte	rnal resorption may be seen	on the r	adiograph as					
	A)								
10	B)	Small radiolucent enlargen	nent of th	ne pulp chamber					
	C)	Radiopacity in the pulp cha							
	D)	Small area around the root	apex						
33.	Oral	l allergic reaction to systemic	cally adr	ninistered drugs is called					
	A)	Allergic stomatitis	B)	Stomatitis medicamentosa					
	C)	Stomatitis venninata	D)	Fixed drug eruption					
34.	In B	ullous pemphigoid the initia	defect	causing bulla is in					
	A)	Intra epithelial	B)	At basement membrane					
	C)	Sub epithelial	D)	Superficial epithelium					
(60)	(A)		(6)						

35.	Frot	thy sputum is seen in		
	A)	Organophosphorus poisoning	; B)	Lead poisoning
	C)	Bismuth poisoning	D)	Nickel poisoning
36.	Peri	adenitis mucosa necrotica recu	rrence	is?
	A)	Herpetiform ulcer	B)	Minor apthous ulcer
	C)	Major apthous ulcer	D)	Recurrent apthous ulcer
37.	Sup	rabasilar acantholysis with cleft	t in ep	ithelium is diagnostic feature of
	A)	Pemphigus vulgaris	B)	Mucous membrane pemphigoid
	C)	Bullous Pemphigoid	D)	Cicatricial Pemphigoid
38.	Uni	lateral vesicles along the course	e of ne	erve in Orofacial region occurs in
	A)	Herpes simples	B)	Secondary herpes
	C)	Herpangina	D)	Herpes zoster
39.	As	ystemic granulomatous disease	that a	iffects the parotid gland is called
	A)	Sialadenosis .	B)	Sialometaplasia
	C)	Sarcoidosis	D)	Sialadenitis
40.	Pos	st herpetic neuralgia is presented	l clini	cally as
	A)	Intermittent pain	B)	Continuous burning pain
	C)	Chronic pain	D)	Dull pain
41.	To is	locate foreign bodies and lesions	s in po	sterior maxilla, the radiograph of choice
	A)	Periapical radiograph	B)	Topographic occlusal radiograph
	C)	Oblique occlusal radiograph	D)	All the above
42.	The	e malignant tumour of jaw that	show	s sun burst appearance in radiograph is
	A)	Metastatic carcinoma	B)	Osteosarcoma
	C)	Fibrosarcoma	D)	Ameloblastic carcinoma
(60) (A)		(7)	[P.T.O.

43.	Multiple small well defined radiolucency without sclerotic border like punched out defect occurs in								
	A)	Hyperparathyroidism	B)	Eosinophilic Granuloma					
	C)	Multiple Myeloma	D)	Hand Schuller Christian disease					
44.	The	e indication for Reverse tow	ne proje	ction of extraoral radiograph is					
	A)	Evaluate base of the skull							
	B)	Identify position of coror	noid						
	C)	Fracture of the condyle a	nd ramus	area					
	D)	Locate tumour in the base							
45.	The	capability of the xray film	to reproc	duce distinct outlines of the object is					
	A)	Contrast	B)	Sharpness					
	C)	Density	D)	Resolution					
46.	Inte	ensifying screens are coated	with						
	A)	Calcium tungstate	B)	Silverhalide					
	C)	phosphorus	D)	Barium					
47.	Sta	fne's cyst appears as a radi	iolucency						
	A)								
	B)								
	C)								
	D)	Above the inferior alveola	r canal						
48.	Multiple odontogenic keratocysts are a feature of?								
	A)	Gorlin's syndrome	B)	Treacher collin syndrome					
	C)	Crouzon syndrome	D)	Gardner's syndrome					
49.	Sub	periosteal erosion of the mi mark for	ddle phal	langes is considered as the radiographic					
	A)	Hypoparathyroidism	B)	Hyperparathyroidism					
	C)	Hypothyroidism	D)	Hyperthyroidism					
50.	Hair	on end effect of cortices of	f skull ap	pears in					
	A)	Multiple myeloma	B)	Sickle cell anaemia					
	C)	Aplastic anaemia	D)	Thalassemia					
				Annual Control of the					

- 51. "What is the recommended course of treatment for a cardiac patient who has undergone valve repair surgery, is currently on warfarin, and has been experiencing pain, clicking, and temporomandibular joint (TMJ) dysfunction symptoms for the past two weeks?"
 - A) Arthrocentesis under antibiotic prophylaxis
 - B) Arthrocentesis without antibiotic prophylaxis
 - Class IV laser, 5 sessions then MRI if symptomatic
 - D) Prolotherapy
- 52. T1 weighted MRI -
 - A) Fat and blood appears hypertensive
 - B) Fat and blood appears hypotensive
 - C) Fat appears hypertensive and blood appears hypotensive
 - D) Fat appears hypotensive and blood appears hypertensive
- 53. "What is the recommended approach for managing Grade IV OSMF when bands extend from the retromolar region to the angle of the mouth?"
 - A) Fibrous band excision Coronoidectomy Temporalis myotomy Nasolabial flap reconstruction
 - Fibrous band excison Coronoidectomy Temporalis myotomy Buccal fat pad
 - Fibrous band excison Coronoidectomy Temporalis myotomy skin graft reconstruction
 - Fibrous band excison Coronoidectomy Buccal fat pad Temporalis myotomy
- 54. In Severe class II patient with TMJ Ankylosis, requiring surgical correction of deformity, best sequence is:
 - A) Pre orthodontics TMJ surgery Orthognathic surgery Post op orthodontics
 - B) Pre orthodontics -Orthognathic surgery Arthrocentesis postop orthodontics
 - C) Pre orthodontics Orthognathic surgery TMJ surgery Post op orthodontics
 - Pre orthodontics Orthognathic surgery Post op orthodontics TMJ surgery
- 55. The infection from submandibular space to peripharyngeal space spread through
 - A) Lincoln highway
- B) Alar fascia
- C) Buccopharyngeal fascia
- D) Retropharyngeal fascia

56.	During facial growth, groove between lateral National process and maxillary process give rise to							
	A)	Nasolacrimal duct	B)	Nostrill				
	C)	Remain as groove	D)	It will fuse				
57.	Dur	ring surgery the most common	effec	tive suture for a MRONJ patient will be				
	A)	Vertical mattress						
	B)	Running continuous in both l	ayer					
	C)	Interrupted						
	D)	Alternate interrupted and mat layer	ttress	in lower layer and continuous in mucosal				
58.		Cheumatoid arthritis with TMJ decreasing mouth opening ma		osis associated with anterior openbite nent is:				
	A)	Osteoarthrectomy with interp	ositio	n				
	B)							
	C)	Gap arthroplasty						
	D)	Total joint replacement (TJR))					
59.	Mos	st common microorganism inv	olved	in Total Joint Replacement infection				
	A)	Staphylococcus Epidermis	B)	Staphylococcus hominis				
	C)	Streptococcus mutants	D)	Staphylococcus Aureus				
60.	Dur	ing BSSO procedure, when fra	cture	line not reaching till the inferior border:				
	A)	Revise external oblique Ridge osteotomy						
	B)	Revise buccal osteotomy						
	C)	Revise Medial osteotomy						
	D)	Use Smith spreader						
61.	Нур	pertonic saline is not given in :						
	A)	Type IV shock	B)	Burns				
	C)	Brain edema	D)	Bowel syndrome				
62.	NO'	T an adjunct to primary survey	:					
	A)	Xray whole spine	B)	Chest X- RAY				
	C)	FAST	D)	Pelvis whole spine				
(60)	(A)		(10)					

63.		ient Haemophilia B needs majo	r sur	gery, factor replacement should be done				
	12000	(2007) 2000 (C)						
	A) B)	80 to 100 units every 12 hour 80 to 100 units every 24 hour						
	C)	80 to 100 units/Kg/6 hours	3					
	D)	50 units every 12 hours						
	~,	Jo mino 0141) 12 mono						
64.		ich of these conditions does BE) prophylaxis	n't re	equire subacute bacterial endocarditis				
	A)	Mitral valve regurgitation	B)	Mitral stenosis (MS)				
	C)	Atrial septal defects (ASDs)	10000					
65.	Blo	Blood supply of deltopectoral island flap						
	A)	Pectoral branch of thoracoact	romia	n artery				
	B)	Pectoral branch of lateral circ	umfle	ex artery				
	C)	Perforator branch of internal i	nami	mary artery				
	D)	Distal branch of thoracoacron	nian	artery				
66.	Wh	ich of the following is not an au:	xiliar	y dental material?				
	A)	Liners	B)	Acid etching solutions				
	C)	Acrylic resin	D)	Impression materials				
67.	Pos	t prosthetic TJR infection with	dens	sity 1 is best assessed by:				
	A)	2-5 neutrophil/ high power field (HPF)						
	B)	ESR and CRP						
	C)	Synovial PMN's						
	D)	Synovial Leukoytes						
68.	All	All are true about Enucleation with peripheral ostectomy EXCEPT						
	 A) Involves the use of a rotary instrument to remove bone adjacent to the cystic lining 							
	B)	그리는 그렇게 하면 있는 그리지를 하다면 한다. 이 사람이 이 사람들이 아니라 하는데						
	C)	and the second s	ırger	y than curettage but is less morbid than				
		resection						
	D)	Safe procedure around anator	nic s	tructures as one does under direct vision				
69.	Em	ergency surgical airway in child		pelow ten years is				
	A)	Percutaneous Cricothyroidote	omy					
	B)	Retrograde Intubation						
	C)	Needle Cricothyroidotomy						
	D)	Tracheostomy		The state of the s				
(60)	(A)		(11)	[P.T.O.				

70.	Immediate surgical extraction of an impacted third molar is contraindicated in :							
	A)	Acute abscess	100010	Acute pericoronitis				
	C)	Cellulitis	D)	Irreversible pulpits				
71.	In which of the following situations does fibrous integration of the implant NOT occur?							
	A)	Overpreparation of the osteo	tomy					
	B)	Overheating of bone in initial	impla	ant surgery				
	C)	Bone necrosis	(-2000)					
	D)	Proximity to the adjacent too	th peri	iodontal ligament				
72.		ile removing an impacted thin lar also, which type of incision		lar, if we have to do apicectomy of 2nd d be given?				
	A)	Semilunar incision	B)	Ward's incision				
	C)	Extended ward's incision	D)	Envelope incision				
73.	Lip	switch procedure is also called	d					
	A)	Simple alveoloplasty	B)	Sub mucosal vestibuloplasty				
	C)	Labial frenectomy	D)	Transpositional flap vestibuloplasty				
74.		atient is taking heparin and we neparin can be reversed	have t	to do surgery immediately, the effects				
	A)	Vitamin K	B)	Protamine sulfate				
	C)	Fresh frozen plasma	D)	Hydrocortisone				
75.	All of the following inhibit clotting except							
	A)	Tissue plasmingen activator	B)	Thrombin				
	C)	Antithrombin III	D)	Prostacyclin				
76.		'Luhr" System of plating, the	two i	ndividual compression screws move				
	A)	lmm	B)	1.6mm				
	C)	3.2mm	D)	4mm				
77.		an osteomyelitis patient, allerg		enicillin, all of the following drugs are				
	A)	Clindamycin	B)	Cephalosporin				
	C)	Erythromycin	D)	Sulpha drugs				
(60)	(A)		(12)	231-100				

.....

78.	BE	BERHMAN'S BUMP is a:							
905,6	A)	 Bony prominence corresponding to the side of lingula and mandibular foramen in the ramus 							
	B)	A square form of chin se	en in man	dibular excess					
	C)	- North Harris (1955) - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 1950 - 19		encein facial hemihypertrophy					
	D)			enial tubercles on the lingual aspect of					
79.	Ant	ibiotic regimen recommen	ded for th	e extraction of teeth in irradiated jaw:					
1,000	A)	아들은 사람이 아내는 아내는 아들이 되었다. 그는 아내는 아내는 아내는 아내는 아내를 하는데 살아 없다.	ng metron	idazole orally 1 hour before surgery and					
	B)			surgery orally and 300 mg postoperatively					
	C)	2gm penicillin V + 500 m 500 mg of both drugs po		idazole orally 1 hour before surgery and vely for 5 days TID					
	D)	[.] [1] - [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]							
80.	Sur	Surgicel used as hemostatic agent is:							
	A)	Methyl cellulose							
	B)	Oxidized cellulose							
	C)	Commercially prepared to	hrombin						
	D)	Russel viper venom							
81.	Giv	en below are features of P	seudo cla	ss III malocclusion EXCEPT					
	A)	Class I molar and canine	relationsh	nips at Habitual occlusion and Class II or					
		end to end relationship at	centric re	elation					
	B)	Proclined upper incisor a	nd retroc	lined lower incisors					
	C)	선생님이 이 아일 아는 아이에서 제작되었다면 내용하다면 살아 보다면 얼마나 아이에 살아 있다면 살아 없었다면 살아 없었다면 하는데 얼마나 없는데 나는데 나를 하는데 하는데 없었다면 살아 싶었다면 살아 싶었다면 살아 없었다면 살아 싶었다면 싶							
	D)	Retroclined upper incisor	rs and nor	mal lower incisors.					
82.	Wh	Which of the following planes in the last to complete growth?							
	A)	Transverse	B)	Vertical					
	C)	Horizontal	D)	Does not vary					
83.	"Pa	rallel elastic" arrangement	is carried	out for the correction of					
	A)	Vertical discrepancy	B)	Midline discrepancy					
	C)	In-out discerpancy	D)	Root paralleling					
84.	Wh	ich of the following is NO	T an esser	ntial diagnostic aid?					
	A)	Case history	B)	Facial photographs					
	C)	Study models	D)	Cephalometric radiograph					

00.		The presence of Amelogenesis imperfect affecting the permanent dentition and gingival enlargement, occurring with nephrocalcinosis, is called as?						
	A)	Lubinsky Syndrome	B)	Perrault Syndrome				
	C)	LADD Syndrome	D)	Raine Syndrome				
86.	The	The term "reverse orthodontics" implies						
	A)	Dental camouflage	B)	Dental decompensation				
	C)	Relapse	D)	Retreatment				
87.	Wh	Which of the following is said to be the 7th key of occlusion						
	A)	Bolton's tooth size ratio	B)	tight contacts				
	C)	Occlusal plane	D)	co-incident midline				
88.		The following are indices used for diagnosis of Obstructive Sleep Apnoea						
	EX	CEPT						
	A)	ESS	B)	AHI				
	C)	IOWA	D)	RDI				
89.	GT	GTRV is used to assess which one of the following?						
	A)	A) Class II malocclusion						
	B)	B) Tooth-size arch length discrepancy						
	C)	C) Class III malocclusion						
	D)	Class 1 malocelusion						
90.	11.000	A patient with CVMI 2-3 with a retrognathic mandible and deep bite can be						
	trea	treated by all of the following EXCEPT						
	A)	Twinblock	B)	HActivator				
	C)	EWA appliance	D)	Eschler appliance				
91.	Ideal value of N angle ? IZC							
	A)	10 degree to occlusal plane						
	B)	13-26 degree to occlusal pl						
	C)	10 degree to maxillary plan						
	D)	13-26 degree to maxillary p	olane	the Enterior Street, we street				
92.		The concept of 'watermelon seed effect' is associated with which of the following?						
	00.450	Surgical extrusion of tooth						
	1000	B) Settling the occlusion with the use of interarch elastic						
	24636	Directing a resultant force vector through the center of resistance						
	D)	None of the above						
(60°	(A)		(14	ALCO MANOR				
(ou	(A)		(14	1				

13110	16020	Classical patient of extraction in class it camourlage is						
	A)	는 그들은 2000 1000 TO TO TO THE POT IN THE SECOND PROPERTY NOTED TO THE POT IN						
	B)	를 보고 있다면 있다면 되었다. [1] 다른 사람들에 보고 있는 사람들이 되었다면 하면 되었다면 되었다면 되었다면 되었다면 하는데 보고 있다면 되었다면 되었다면 하는데 보고 있다면 보고 있다면 보다 다른데 보고 있다면 보고 있다면 보고 있다면 보다 되었다면 되었다면 되었다면 되었다면 되었다면 되었다면 보고 있다면 보고 있다면 보다 되었다면 되었다면 보다 되었다면 보						
	C)							
	D)	Extraction of upper 2 nd premolars and lower 1 st premolars						
94.	2 nd	2 nd order bends are						
	A)	Tipping bends	B)	Torquing bends				
	C)	In-out bends	D)	Up-down bends				
95.	The M/F ratio is crucial to the establishment of							
	A)	Centre of rotation	B)					
	C)	Achorage	D)	All of the above				
96.	The ideal value of Z angle is							
	A)	82-85 degrees	B)	70 degrees				
	C)	102-108 degrees	D)	75-78 degrees				
97.	The concept of sequential mandibular anchorage preparation was proposed by							
	A)	Tweed- Merrifield	B)	Tweed				
	C)	McLaughlin & Benette	D)	Ricketts				
98.	The composition of commonly used etchant for bonding to porcelain is							
		37% phosphoric acid	B)					
	C)	9.6% phosphoric acid	D)	4.2% hydrofluoric acid				
99.	AM	A Moment to force ratio of >1 indicates						
	A)		B)	Uncontrolled tipping				
	C)	Intrusion		Bodily movement				
100	The	ideal angulation for plaemer	nt of infr	azvgomatic bone screw is				
	A)			ed by 55-70 degrees downwards towards				
	B)	70 degrees to occlusal plane followed by 55-70 degrees downwards towards tooth						
	C)	45 degrees to occlusal plane tooth	followe	ed by 55-70 degrees downwards towards				
	D)	90 degrees to occlusal plantooth	ne follov	wed by 90 degrees downwards towards				

(60) (A)

(16)