1) Anil can do a piece of work in 16 days which Shashi can finish in 24 days. If they work on alternate days with Anil many days the work will be finished?
A) 15 days
B) 17 days
C) 18 days
D) 19 days
2) Three identical discs
and the other in green have one side painted in blue color simultaneously. What is ther. These three discs are tossed faces than the green faces, whobability of getting more blue
A) $3 / 4$
B) $1 / 4$
C) $1 / 2$
D) $1 / 3$
3) A circle is inscribed in an equilateral triangle of side 20 cm , touching its sides. What is the area of the circle?
A) $50 \pi \mathrm{~cm}^{2}$
B) $50 \pi / 3 \mathrm{~cm}^{2}$
C) $100 \pi / 3 \mathrm{~cm}^{2}$
D) $100 \pi \mathrm{~cm}^{2}$
4) If A's income is $60 \%$ more than that of B 's income, then by how much percent is $B$ 's income less than that of $A$ ?
A) 25.5
B) 37.5
C) 60
D) 80
5) $P$ alone can finish a job in 12 days while $Q$ can do so in 16 days. With the help of $R$, they have finished the job in 4 days for a contract price of $₹ 1,200$. How much should $R$ get out of it?
A) ₹ 300
B) ₹ 400
C) ₹ 500
D) ₹ 600
6) The smallest number that leaves remainder 7 when divided by 35,56 and 91 , is
A) 2345
B) 3647
C) 3847

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4) The probability of getting exactly 4 tails when 6 unbiased
coins are tossed is
A) $\frac{15}{64}$
B) $\frac{31}{64}$
C) $\frac{3}{32}$
D) $\frac{31}{32}$
5) 4 years ago, Swapna's mother was 3 times as old as Swapna. After 6 years she will be twice as old as Swapna. Present age (in years) of Swapna's mother is
A) 39
B) 36
C) 34
D) 24
A) 12
B) 16
C) 20
D) 24
6) What percentage of 60 is 12 ?
7) The price of each apple is $₹ 10$ and that of each mango is ₹ 15 . If a bag contains 40 apples and 20 mangoes, then what is the approximate average price per fruit in the bag?
A) ₹ 12.5
B) ₹ 11.7
C) ₹ 10.5
D) ₹ 9.6
8) If the speed of Anil and Barun are $40 \mathrm{~m} / \mathrm{s}$ and $40 \mathrm{~km} / \mathrm{hr}$ distance by them is
A) $1: 1$
B) $5: 18$
C) $1: 2$
D) $18: 5$
9) What is the distance travelled by the tip of the minute hand of a wall clock in 2 days if the length of the minute
hand is 7 cm ?
A) 88 cm
B) 528 cm
C) 2112 cm
D) 4224 cm
10) Two cylinders of same volume have their radii in the
ratio $3: 1$. What is the ration ratio $3: 1$. What is the ratio of their heights?
A) $1: 3$
B) $3: 1$
C) $1: 9$
D) $9: 1$
11) The ages of $\mathrm{A}, \mathrm{B}$ and C are 8 years 10 months, 15 years 6 months, 12 years 5 months respectively. What is the average age of $\mathrm{A}, \mathrm{B}$ and C ?
A) 10 years 2 months
B) 12 years 3 months
C) 13 years 6 months
D) 13 years 9 months
12) If $a: b=5: 7$, then the ratio $(5 a+7 b):(3 a+4 b)$ is
A) $43: 74$
B) $76: 43$
C) $74: 43$
D) $43: 76$
13) Seeta and Geeta had certain number of chocolates with them. If Geeta gives 5 chocolates to Seeta, the ratio of the chocolates with Geeta and Seeta will be $3: 2$, whereas If Seeta gives 5 chocolates to Geeta, then the ratio of the chocolates with Geeta and Seeta will be $4: 1$. How many chocolates Geeta had initially?
14) Average age of a group of 10 students is 12 years. 5 new students join them, then the average of the new group increases by 1 year. The average age students is
A) 13 years
B) 15 years
C) 16 years
D) 18 years
15) Sum of the ages of father and son is 68 . After 8 years father will be thrice as old as son. The present age (in years) of the son is
A) 18
B) 16
C) 15
D) 13
16) A's present age in years is $20 \%$ of B's age. After 30 years, A's age will be $1 / 2$ of B's. The sum of the present ages of $A$ and $B$ is
G940 years
B) 60 years
C) 80 years
D) 100 years
17) When 2 unbiased dice are rolled, what is the probability that the sum on the top of the faces is greater than 10?
A) $1 / 12$
B) $1 / 6$
C) $1 / 4$
D) $1 / 2$
A) 35
B) 25
C) 20
D) 15
18) ' $P+Q$ ' means $P$ is the wife of $Q$. ' $P-Q$ ' means $P$ is the husband of Q . ' $\mathrm{P} \div \mathrm{Q}^{\prime}$ means P is the son of Q . $\mathrm{P} \times \mathrm{Q}^{\prime}$ means $P$ is the brother of $Q$. As per $A \times Q+B+S+C$, how is $C$ related to A's Father?
A) Brother
B) Father
Q) Grandfather
D) Son
19) Town $A$ is towards the West of town B. Town $C$ is towards the North of town A. Town E is towards the West of town C. Town E is towards which direction of town B ?
A) South-east
B) North-west
C) North-east
D) South-west
20) In certain language, [RA SA HA] is coded as [\&\& \& **], [MA LA RA] is coded as [^^ \%\% \#\#], [SA MA RA] is coded What is the code for "LA"?
A) \&\&
B) \#\#
C) **
D) ${ }^{\wedge}$
21) In this question, out of the four figures, three are similar in a certain manner. However, one figure is NOT like the other three. Select the figure which is different from the rest.

A) $A$
B) $B$
C) $C$
D) $D$
22) Which of the figures given in the answer figures will complete the figural series given in the problem figures?

23) $X$ starts walking from the place ' $A$ '. He walks 4 km Eas and reaches place ' $B$ ', then turns right. After going 3 km straight he stops at the place ' $C$ '. What is the shortes distance between ' $A$ ' and ' $C$ '?
A) 4 km
B) 5 km
C) 6 km
D) 7 km
any of these two languages. How many students spea both the languages?
A) 30
B) 40
C) 60
D) 55
24) What is the next term in the given series?

21, 63, 252, 1260, $\qquad$
A) 2470
B) 7560
C) 3056
D) 9046 symbol for 971254 ?

A) RMA@P@
B) MMP@P\%
C) RMA@P\%
D) RMA@d\%
30) Select the alternative that will make the second pair analogous to the first pair given as:
3 : Tri :: 10 : $\qquad$
A) Femto
B) Deca
C) Nano
D) Quad
31) Directions: Study the following figure and answer the question that follows:


Which letters represent the artists who are doctors as well as dancers but not scientists?
A) L and H
B) G and C
C) $G$ and $H$
D) C and H
32) In a certain code, if TRAIN is coded as
A) LNCVHQTI
B) TKCPENSN
C) QMBUGPSN
D) TMBUEQTO
33) What is the missing term in the given series?
$1 / 4,1 / 8,1 / 16$, $\qquad$ 1/64
A) $1 / 22$

易 $1 / 32$
C) $1 / 24$
D) $1 / 34$
34) Select the alternative that will make the second pair analogous to the first pair given as:

Century : 100 :: Millennium : $\qquad$
A) $10,00,000$
B) $1,00,000$
C) 10,000
D. 1.00 n
35) Sheetal is the sister of Babita's daughter's brother. How is Babita related to Sheetal?
A) Mother
B) Niece
C) Nephew
D) Sister
36) Naveen's father's only daughter's son is Arnav. How is Arnav related to Naveen?
A) Nephew
B) Brother
C) Son
D) Uncle
37) The missing term in the series

11, 10, $\qquad$ $, 27,66.5,198.5$ is
A) 14
B) 16
C) 21
D) 19
38) Which of the follow given below?

18 is to ?
A)

B)

C)

D)

39) Meena walked 26.6 m to the South. She turns to her
40) In this question, out of the four figures, three are in a certain manner. However, one figure is NOT li other three. Select the figure which is different fro rest.
A)

B)

C)

D)
 right and walks 19.5 m . Next she moves 23.4 m to her left. Next she moves 8.5 m to her left. How far is she from her
starting point?
A) 45.20 m
B) 51.19 m
C) 72.45 m
D) 32.75 m
irections for Questions (41-45):
Read the following passage and answer the questions:
he gramophone is so common now, that we have ceased wonder at it. Yet it is a truly wonderful invention; and ven now, if we give it a thought, we cannot help marvelling at it is possible to catch such a fleeting thing as sound, nd record it in such a way that it can be repeated and produced at will, so that we can actually hear the very ords and the tones of the voice of a man who died, it may e, years ago.
he uses of the gramophone, or talking machine, are any. Its main use is to give pleasure- all the pleasure that usic can give. It is a great boon to music lovers who have tle opportunity of hearing good music, such as those who re in small country places, or in foreign lands far from vilizations. Such people can listen to the voices of the eatest singers and the finest orchestras of the day; for e gramophone is now so perfect that a good machine produces the finest shades of tone and expression of human voice and of musical instruments.
has, too, its educational uses, especially in teaching usic and singing. A singer, by listening to a song sung by ome great master, can learn how that song, should be ung; and he can have the song repeated over and over gain, until he has mastered it.

1) Music lovers felt that the gramophone is a boon ecause they could
A) be a part of the new civilization.
B) listen to good music.
) popularise famous music.
) learn their favorite numbers.
) The gramophone is a wonderful invention because
it is common these days.
it reproduces the exact picture.
it catches a fleeting thing such as sound.
it is used to capture the voice of a person who is dead.
The main use of a gramophone is to
produce sound
record tones
give pleasure
offer solace
2) It is useful for students because it helps them to
A) repeat the song till they master it.
B) listen to religious songs.
C) listen to special music.
D) learn songs sung by dead people.
3) On the gramophone, we listen to
A) voices of the greatest singers and the finest orchestras
B) only a shade of a tone
C) only emotions of human voice
D) forgotten songs
4) Fill in the blanks with the correct option:

He $\qquad$ confident even when he faces severe problems.
A) remain
B) were remaining
C) have been remained
D) remains
47) Identify the synonym of the underlined word;
A) Rig
B) Tunnel
C) Channel
D) Crack
48) Choose the word that is spelt correctly and fill the blanks:

A river can change its $\qquad$ .
A) coursse
B) corrse
C) coarse
D) course
49) Fill in the blanks with the correct option:
$\qquad$ energy generated by $\qquad$ windmill drives all
A) An, No Article
B) The, a
C) No Article, an
D) A, No Article
50) Fill in the blanks with the correct option

He $\qquad$ his left hand so typed with one hand.
A) had injured
B) injures
C) have injured
D) injure
51) Fill in the blanks with the correct option

Even after
$\qquad$ years, everything has remained
A) much, all
B) several, much
C) the, the
D) many, the
52) Identify the synonym of the italicised word:

The middle aged man is a brilliant lawyer.
A) Studious
B) Culpable
C) Stupid
ikalerts.COD) retreated
D) Bright
53) Select the right antonym for the underlined word

People do not mimic their idols, but adore them.
A) praise
B) mock
C) joke
D) ridicule
54) Fill in the blanks with the correct option:

All the best bargains were snapped up $\qquad$ hours.
A) at
B) with
C) within
D) till
55) Fill in the blank $\qquad$ serrect option for learners.
A) a
B) No Article
C) an
D) the
56) Choose the word that is spelt correctly and fill the blanks: He lacked the $\qquad$ to take up the project.
A) confidanse
B) confidance
C) confidense
D) confidence
57) Choose the antonym of the underlined word.

The couple fled from home in the night.
A) arrived
B) deserted
58) Which of the following is a Declarative sentence?
A) The sun rises in the east.
B) Please let me work.
C) How hot it is!
D) Have you done your home-work?
59) Choose the answer option which will CORRECTLY fill the blank:
$\qquad$
A) Any
B) Each
C) This
D) All
60) Fill in the blanks with the correct option:

The children were scared when the train was passing a tunnel.
A) in
B) through
C) over
D) below

## Section 4 - General Awareness and Science

(i) Kashmiri language spoken in the Union Jammu and Kashmir is also known as Koshur.
(ii) Kashmiri language is not included in the Eighth

Schedule of the Indian Constitution.
Dominic Thiem
Rafael Nadal
Novak Djokovic
62) Who among the following was the Chief Guest for the 2020 Republic Day celebrations in India?

Donald Trump
Ashraf Ghani
C) Maithripala Sirisena
D) Jair Messias Bolsonaro
63) As per the 2011 Census data, in which of the following union territories the female population outnumbers the male population?
A) Chandigarh
B) Lakshadweep
C) Andaman and Nicobar
D) Puducherry
64) Who among the following was awarded the Padma Vibhushan-2020 for his/her exceptional and distinguished service in the field of Sports?
A) P.V. Sindhu
B) Jitu Rai
) Gagan Narang
) Mary Kom

Which of the following communities celebrate the Hemis festival in honour of Guru Padmasambhava's birth anniversary?

Buddhists
Sikhs
Christians
Parsis

The most commonly used bleaching agent for disinfecting drinking water supply is
) Phenyl
) Chlorine
A) (i) is TRUE and (ii) is TRUE
B) (i) is TRUE and (ii) is FALSE
C) (i) is FALSE and (ii) is TRUE
D) (i) is FALSE and (ii) is FALSE
68) Which one of the following options is matched INCORRECTLY?
A) Fuel cell - Chemical energy is converted into Electrical energy
B) Loud speaker - Sound energy is converted into Electrical energy
C) Photovoltaic cell - Light energy is converted into Electrical energy
D) Electric motor - Electrical energy is converted into . Mechâniçal energy
69) Which of the following characteristic(s) of a sound wave determine the loudness of the sound?
(i) Frequency
(ii) Amplitude
(iii) Timbre
A) Only (i) and (ii)
B) Only (iii)
C) Only (ii)
D) Only (i) and (iii)
70) Originally called "The Bombay Times and Journal of Commerce", this paper was founded in 1838 in Mumbai (then Bombay), to serve the British residents of western
India. Identify the newspaper.
A) The Tribune
B) The Times of India
C) The Hindu
D) The New Indian Express
71) Identify the INCORRECT match between the element and its corresponding chemical symbol.
A) Calcium - Ca
B) Aluminium - Al
C) Sodium - So
D) Chlorine- Cl
72) Identify the film which is India's official entry for Oscars 2020 under the Foreign Language Film category.
A) Newton
B) Mukti Bhawan
C) Gully Boy
D) Village Rockstars
73) Vitamins are substances that our body needs to grow and develop normally. The vitamin prepared in our body with the help of sunlight is
A) Vitamin D
B) Vitamin $A$
C) Vitamin K
D) Vitamin E
74) Identify the Wildlife Sanctuary in the jammul and 4 S . C A 12
Kashmir region dominated by Bamboo Plantation.
A) Nandini Wildlife Sanctuary
B) Jasrota Wildlife Sanctuary
C) Surinsar Mansar Wildlife Sanctuary
D) Lachipora Wildlife Sanctuary
75) Who is the sixth Indian cricketer officially inducted into the ICC Hall of Fame in 2019?
A) Sachin Tendulkar
B) Rahul Dravid
C) Anil Kumble
D) Mahendra Singh Dhoni
76) Which of the following statements is FALSE with reference to Bahu Fort?
A) It was originally constructed by Raja Bahulochan
B) It houses a temple dedicated to the Hindu goddess Kali within its premises
C) It is a historical fort situated on the banks of river Chenab
D) It houses a royal garden called Bagh-e-Bahu
B) 15
C) 18
77) The theme for sixth International Yoga Day was:
A) Yoga at Home - Yoga for Peace
B) Yoga for Health - Yoga at Home
C) Yoga for Climate Action
D) Yoga for Harmony and Peace
78) During winter season, the Northeast Trade winds cause rainfall in which of the following regions of India?
A) Gujarat region
B) Tamil Nadu region
C) Valley of Kashmir
D) Upper Assam plains
79) Which among the following Union Territories is also the capital of two neighbouring states in India?
A) Ladakh
B) Chandigarh
C) Delhi
D) Puducherry
80) India achieved its best ever medal haul at the Asiar Games 2018. How many Gold medals did India win?
D) 24
81) Given below is a sequence of districts of the unic territory of Jammu and Kashmir arranged in the North South direction. Identify the CORRECT option.
A) Gandarbal-Anantnag-Ramban-Jammu
B) Jammu-Anantnàg-Ramban-Gandarbal
C) Anantnag-Ramban-Jammu-Gandarbal
D) Gandarbal-Anantnag-Jammu-Ramban
82) The act of transferring pollen grains from the m anther of a flower to the female stigma is called:
A) Photosynthesis
B) Polarization
C) Pollination
D) Polymerisation
83) Which of the following classical dance forms originated in Northern India?
A) Kathak
B) Bharatanatyam
C) Mohiniyattam
D) Kuchipudi
84) The Ozone gas found in which of the following layers of the atmosphere absorbs harmful UV radiations and prevents them from reaching the earth's surface?
A) Troposphere
B) Stratosphere
C) Mesosphere
D) Thermosphere
85) Identify the legislative act that sought to create political equality by vesting Indian judges with the power to try the Europeans or the British citizens residing in India.
A) Moriey-Minto Reforms
B) Cripps Mission
C) Pitts India Act
D) libert Bill
86) Which of the following teams won the FIFA World Cup 2018?
A) Germany
B) France
C) Croatia
D) Brazil
87) Water pollution occurs when harmful substances like microorganisms contaminate a water body degrading the water quality and rendering it toxic to humans or the environment. Which one of the following diseases is NOT due to contamination of water?
88) Identify the CORRECT option with refer
(i) Kahwah - A green tea prepared with different spices, walnuts or almonds and saffron
(ii) Gushtaba - A preparation of spicy yogurt gravy containing meatballs
(iii) Nadru Yakhni - Banana stems cooked with mild aromatic spices and yogurt
A) (i) - TRUE, (ii) - FALSE, (iii) - TRUE
B) (i) - TRUE, (ii) - TRUE, (iii) - FALSE
C) (i) - FALSE, (ii) - TRUE, (iii) - FALSE
89) The paintings that adorn the walls and ceilings of the Ajanta and Ellora caves depict incidents from the life of lord
A) Mahavir
B) Buddha
C) Parashurama
B) Narsinha
90) Read the following statements and choose the CORRECT option.
(i) Excavations by the Archaeological Survey of India have established the fact that Akhnoor was one of the last Bastion of Harappan Civilization and Manda.
(ii) Akhnoor is believed to be the only early Buddhist site in Jammu, the excavations have found remains of Stupas and Buddhist terracotta.
A) (i) is TRUE and (ii) is FALSE
B) (i) is TRUE and (ii) is TRUE
C) (i) is FALSE and (ii) is FALSE
D) (i) is FALSE and (ii) is TRUE
91) Any princely state under the direct or indirect control of the East India Company where the ruler did not have a legal male heir would be annexed by the company. This policy was devised by
A) Lord Curzon
B) Lord Bentinck
C) Lord Macaulay
D) Lord Dalhousie
92) Kavaratti is the capital of which of the following Union Territories in India?
A) Andaman and Nicobar
B) Puducherry
C) Lakshadweep
D) Dadra and Nagar Haveli
93) Giddha is a popular folk dance performed only by the ladies. This dance is part of the culture of which of the following states in India?
A) Maharashtra
B) Gujarat
C) Punjab
D) Uttarakhand
94) This state was carved out of Madhya Pradesh in the year 2000. Identify the state and its capital from the following options.
A) Jharkhand, Ranchi
B) Chhattisgarh, Raipur
C) Uttarakhand, Dehradun
D) Telangana, Hyderabad
95) Where is Manas Tiger Reserve situated?
A) Andhra Pradesh
B) Karnataka
C) Assam
D) Arunachal Pradesh
96) Which of the following options is/are INCORRECT with reference to passes found in the Pir Panjal Range?
(i) Hajipir pass
(ii) Banihal pass
(iii) Khardungla pass
A) Only (i)
B) Only (ii)
C) Only (ii) and (iii)
D) Only (iii)
97) Match the following:

| Sports Person | Sports |
| :--- | :---: |
| (i) Sania Mirza | (a) Badminton |
| (ii) Saina Nehwal. | (b) Billiards |
| (iii) Pankaj Advani | (c) Wrestling |
| (iv) Sakshi Malik | (d) Tennis |

A) (i) - (c), (ii) - (a), (iii) - (b), (iv) - (d)
B) (i) - (d), (ii) - (a), (iii) - (b), (iv) - (c)
C) (i) - (a), (ii) - (d), (iii) - (c), (iv) - (b)
D) (i) - (d), (ii) - (a), (iii) - (c), (iv) - (b)
98) The main block of Supreme Court building of India was designed by which of the following architects?
A) Anant Damodar Raje
B) Ganesh Bhikaji Deolalikar
G) Vasanth Kamath
D) Achyut Purushotham Kanvinde
99) Which of the following statements is/are INCORRECT?
(i) All latitudes are great circles
(ii) All longitudes are great circles
(iii) Equator is a great circle
(iv) Prime meridian is a great circle
A) Only (i)
B) Only (iv)
C) Only (ii) and (iii)
D) Only (iii) and (iv)
100) Which of the following monuments was built $b$ Mughal emperor Akbar to commemorate the victory ove Gujarat?
A) Jama Masjid
B) Buland Darwaza
C) Red Fort
D) Agra Fort

