

GOVERNMENT OF JAMMU AND KASHMIR
JAMMU & KASHMIR SERVICES SELECTION BOARD

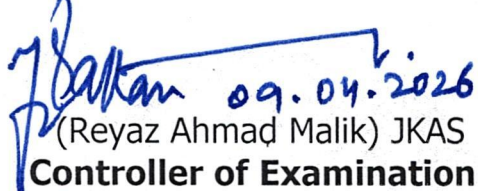
Muthi, Akhnoor Road, Jammu/Zamzam Complex Rambagh Srinagar
www.jkssb.nic.in

NOTICE

Subject: Syllabus for the post of Sub Inspector (Telecommunication) Home Department advertised under Advertisement Notification No. 11 of 2025 dated 26.11.2025.

The J&K Services Selection Board has advertised the posts of **Sub Inspector (Telecommunication)**, Home Department vide Advertisement Notification **11 of 2025** dated **26.11.2025**. In this regard, the syllabus for examination to the said post is notified as Annexure "A" to this notice.

This notice is for the purpose of intimation to the concerned candidates only. The dates for the Examination shall be notified separately.


(Reyaz Ahmad Malik) JKAS
Controller of Examination
J&K Services Selection Board

No. JKSSB-COE0EXAM (UT)/47/2023-03(7202120)

Dated: 09-04-2026

Copy to the: -

1. Principal Secretary to the Government, Home Department, Civil Secretariat, J&K, Jammu.
2. Commissioner/Secretary to the Government, General Administration Department, Civil Secretariat, J&K, Jammu.
3. Director, Information & Public Relations, J&K Government with the request to get the said notification published in at least two leading local newspapers of Jammu/Srinagar for three consecutive days.
4. Member(s) ALL, J&K Services Selection Board.
5. Secretary, J&K Services Selection Board.
6. P.S. to Chairperson, J&K Services Selection Board for the information of Chairperson.
7. In-charge Website, J&K Services Selection Board, Jammu.
8. Office record.

**Syllabus for Written Examination for the post of Sub-Inspector
(Telecommunication) in J&K Police, Home Department**

The Written examination for the post of **Sub-Inspector (Telecommunication)** in J&K Police, Home Department shall **comprise of 100 objective type, Multiple Choice Questions**. Each question shall carry **02 marks**. There will be **negative marking of 0.5 marks for each wrong answer**.

Duration: 120 minutes.

PART –A: General Awareness, Aptitude & Communication

S. No	Subject	Marks
1.	General Knowledge & Current Affairs	20 Marks
2.	General Knowledge with Special Reference to J&K UT	10 Marks
3.	General English & Communication Skills	10 Marks
4.	General Intelligence & Reasoning	10Marks
5.	Basic Numeracy	10 Marks
	Total	60Marks

PART –B: Technical/Professional Knowledge

S. No	Subject	Marks
6.	Engineering Mathematics & Signal Fundamental	10 Marks
7.	Electronic Devices, Analog Circuits & Network Theory	20 Marks
8.	Digital Electronics & Microprocessors	20 Marks
9.	Communication System	20 Marks
10.	Computer Science & Networking Systems	20 Marks
11.	Cyber Security & Legal Framework	10 Marks
12.	IT System & e-Governance	10 Marks
13.	Database Management System	10 Marks
14.	IoT, Embedded System & Mechatronics	10 Marks
15.	Artificial Intelligence, Data Science & Automation	10 Marks
	Total	140 Marks
	G. Total	200 Marks

**Detailed Syllabus for Written Examination for Sub-Inspector
(Telecommunication Wing) Jammu & Kashmir Police**

PART–A: General Awareness, Aptitude & Communication

1. General Knowledge & Current Affairs

- Major national and international events
- Indian economy: budget, flagship schemes, reforms
- Developments in science & technology
- Space, defence and nuclear programmes
- Indian Polity: Preamble, Fundamental Rights & Duties, Directive Principles of State Policy
- Disaster Management, Climatic change

2. General Knowledge with Special Reference to J&K UT

- History of Jammu & Kashmir
- Geography: rivers, lakes, climate, soils, flora & fauna
- Jammu & Kashmir Reorganisation Act, 2019

3. General English & Communication Skills

- Grammar: tenses, modals, articles, prepositions
- Active & passive voice
- Direct & indirect speech
- Synonyms, antonyms, idioms and phrases
- Reading comprehension
- Error spotting and sentence improvement
- Basics of professional communication: official drafting, email etiquette and technical terminology

4. General Intelligence & Reasoning

- Analogies
- Number and letter series
- Coding–decoding
- Venn diagrams
- Syllogisms
- Blood relations
- Logical reasoning and pattern recognition

5. Basic Numeracy

- Ratio and proportion
- Percentages
- Profit and loss
- Simple and compound interest
- Averages
- Time, speed and distance
- Elementary statistics and data interpretation

PART–B: Technical/Professional Knowledge

1. Engineering Mathematics & Signal Fundamentals

- Linear algebra: matrices, determinants, rank, eigenvalues/eigenvectors, solution of linear equations
- Calculus: differentiation, integration, differential equations
- Transforms: Fourier series, basics of Fourier and Laplace transforms
- Signals and systems: signal types, operations, sampling theorem, convolution (conceptual), LTI systems
- Frequency domain concepts: spectra, bandwidth, aliasing, basic filters

2. Electronic Devices, Analog Circuits & Network Theory

Electronic Devices

- Semiconductor basics
- PN junction diode and Zener diode
- BJT and MOSFET: characteristics, biasing and switching
- LED, photodiode, phototransistor
- SCR and TRIAC (basic concepts)

Analog Circuits

- Operational amplifiers: inverting and non-inverting amplifiers
- Summing, integrator and differentiator circuits
- Comparators and Schmitt trigger
- Oscillators (RC, LC, crystal)
- Rectifiers and filters

Network Theory

- KVL and KCL
- Mesh and nodal analysis
- Network theorems
- Resonance in RLC circuits
- Frequency response of simple filters

8. Digital Electronics & Microprocessors

Digital Electronics

- Number systems and conversions
- Logic gates and Boolean algebra
- Karnaugh maps
- Combinational circuits
- Sequential circuits: flip-flops, counters and shift registers

Microprocessors & Microcontrollers

- 8085/8086 architecture and instruction set basics
- Addressing modes, interrupts and timing
- 8051 microcontroller fundamentals
- Introduction to ARM architecture
- Memory interfacing (conceptual)

14. IoT, Embedded Systems & Mechatronics

- IoT architecture and M2M communication
- Embedded and real-time systems
- Surveillance and access control systems: CCTV, ANPR, RFID
- Drone technology
- Robotics fundamentals
- Sensors and actuators
- Basics of hydraulics and pneumatics

15. Artificial Intelligence, Data Science & Automation

- Fundamentals of AI and its components
- AI techniques and applications in engineering and government systems
- Big data and analytics in law enforcement
- Advantages, limitations and ethical concerns of AI