

SSC JE Exam Pattern & Syllabus 2026

Junior Engineer Examination 2026 — Complete details on Paper-I & Paper-II pattern, marking scheme, stream-wise syllabus, and the full selection process, based on the official SSC notification.

Civil

Electrical

Mechanical

CS & IT

Electronics & Telecom

Physics

Telecommunication

01 Important Dates

02 Exam Pattern — Paper-I & Paper-II

03 Stream-wise Syllabus

04 Selection Process

1. Important Dates

Event	Date		
Online Application Starts	02.09.2026		
Last Date to Submit Application	22.09.2026	(23:00	hrs)
Last Date for Online Fee Payment	23.09.2026	(23:00	hrs)
Application Correction Window	28.09.2026 to 30.09.2026 (23:00 hrs)		
Computer Based Examination (Paper-I)	October/November 2026 (Tentative)		
Computer Based Examination (Paper-II)	December 2026 (Tentative)		

2. SSC JE 2026 Exam Pattern

The SSC JE 2026 selection process is conducted entirely through Computer Based Examinations (CBE), held in two stages: Paper-I and Paper-II. Both papers consist of Objective Type, Multiple-Choice Questions only, and questions are set in Hindi and English.

Paper-I Pattern

Part	Subject	Questions / Marks
Part 1	General Intelligence & Reasoning	50 / 50
Part 2	General Awareness	50 / 50
Part 3	General Engineering (stream as opted)	100 / 100

Duration: 2 hours (2 hrs 40 min for scribe-eligible candidates) | **Negative Marking:** 0.25 marks per wrong answer | **Nature:** Qualifying — used only to shortlist for Paper-II

Paper-II Pattern

Part	Subject	Questions / Marks
A / B / C / D / E / F / G	General Engineering (opted stream: Civil, Electrical, Mechanical, CS & IT, Electronics & Telecom, Physics, or Telecommunication)	100 / 300

Duration: 2 hours (2 hrs 40 min for scribe-eligible candidates) | **Negative Marking:** 1 mark per wrong answer | **Nature:** Determines final merit

Other Key Points

- IS 456:2000 Code of Practice and Steam Table, and a Scientific Calculator, are provided on-screen — no physical versions allowed inside the exam lab.
- Marks are normalized across shifts; Electrical & Mechanical branches, and IMD streams (Part-D/E/F), are normalized against each other as separate shifts.
- Engineering questions: Diploma level (Civil, Mechanical, Electrical); Graduation level for CS & IT, Electronics & Telecom, Physics, and Telecommunication.

Minimum Qualifying Marks: UR — 30% | OBC/EWS — 25% | All Other Categories — 20% (applies to both Paper-I and Paper-II)

3. SSC JE 2026 Syllabus

Paper-I Syllabus

GENERAL INTELLIGENCE & REASONING

Analogies, similarities and differences, space visualization, problem-solving, analysis, judgment, decision-making, visual memory, discrimination, observation, relationship concepts, arithmetical reasoning, verbal and figure classification, arithmetical number series, and questions testing the ability to deal with abstract ideas, symbols, and their relationships.

GENERAL AWARENESS

Current events and everyday scientific observations, along with History, Culture, Geography, Economic Scene, General Polity, and Scientific Research relating to India and its neighbouring countries. No special study of any discipline is required.

Engineering subjects in Paper-I cover the same broad topic areas as Paper-II (below) for the stream chosen by the candidate, at a foundational level.

Paper-II Syllabus (Stream-wise)

PART-A: CIVIL & STRUCTURAL ENGINEERING

Engineering Mechanics, Solid Mechanics, Structural Analysis, Construction Materials and Management, Estimating/Costing/Valuation, Concrete Structures, Steel Structures, Surveying, Soil Mechanics (Geotechnical Engineering), Fluid Mechanics and Hydraulics, Hydrology and Irrigation Engineering, Water and Wastewater Treatment, Air Pollution, Municipal Solid Wastes, Transportation Infrastructure, Highway Pavements, and Traffic Engineering.

PART-B: ELECTRICAL ENGINEERING

Fundamentals of Electrical Engineering, Network Solution Methods and Theorems, Magnetic Circuits, A.C. Fundamentals, Measurement and Measuring Instruments, Electrical Machines, Special Electric Machines and Synchronous Generators, Generation/Transmission/Distribution, Estimation & Costing, Utilization of Electrical Energy, Basic Electronics, and Power Electronics.

PART-C: MECHANICAL ENGINEERING

Engineering Mechanics, Strength of Materials, Theory of Machines, Machine Design, Materials Science and Engineering, Thermal Engineering, Fluid Mechanics and Hydraulic Machinery, Industrial Engineering, Manufacturing Engineering, Metrology and Measurement, and Advanced Manufacturing Processes.

PART-D: COMPUTER SCIENCE & INFORMATION TECHNOLOGY

Engineering Mathematics (Discrete Mathematics, Linear Algebra, Calculus, Probability and Statistics), Digital Logic, Computer Organization and Architecture, Programming and Data Structures, Algorithms, Theory of Computation, Compiler Design, Operating System, Databases, and Computer Networks.

PART-E: ELECTRONICS & TELECOMMUNICATION ENGINEERING

Electronics: Electronic Materials & Components, Diodes, Transistors, Amplifiers & Oscillators, Voltage Regulation, Network Theorems, AC Circuits, Three-Phase Circuits, Resonance, Digital Electronics, Sequential & Combinational Logic, and Data Conversion & Codes. **Telecommunications:** Antennas, Radio Wave Propagation, Electromagnetic Spectrum, Modulation (AM, SSB, FM, Pulse), Multiplexing, Digital Communication basics, and RF/Wireless Communications.

PART-F: PHYSICS

Mathematical Methods, Mechanics, General Properties of Matter, Oscillations, Waves, Optics, Electricity, Magnetism, Kinetic Theory, Thermodynamics, Modern Physics, Solid State Physics, Semiconductor Devices, and Analog and Digital Electronics.

PART-G: TELECOMMUNICATION ENGINEERING

Engineering Mathematics (Linear Algebra, Calculus, Differential Equations, Vector Analysis, Complex Analysis, Probability and Statistics), Network Analysis, Signals and Systems, Electronic Devices, Analog Circuits, Digital Circuits, Control Systems, Analog Communications, Digital Communications, and Electromagnetics.

4. SSC JE 2026 Selection Process

Selection to SSC JE 2026 happens in stages, moving from the computer-based exams through document checks and, for certain posts, physical/medical tests.

STAGE 1 — PAPER-I (CBE)

Compulsory for every candidate. Qualifying in nature — candidates are shortlisted category-wise for Paper-II based on normalized Paper-I marks. Paper-I marks are not added to the final merit.

STAGE 2 — PAPER-II (CBE)

Only shortlisted candidates appear here, attempting the engineering stream opted for at the time of application. Final merit is based purely on normalized Paper-II marks.

STAGE 3 — POST PREFERENCES / FRTA

Before the final result, shortlisted candidates submit post/department preferences via an Online Option Form. This is final and irreversible — candidates who miss this step are not considered for any post, regardless of merit. Final allocation is based on Paper-II performance combined with these preferences.

STAGE 4 — DOCUMENT VERIFICATION (DV)

Conducted by the concerned User Department after the final result. Required documents include: Matriculation/Secondary Certificate, Educational Qualification Certificate, Experience Certificate (if applicable), Caste/Category Certificate (reserved categories), PwD Certificate (if applicable), Ex-Servicemen documents, age-relaxation proof, No Objection Certificate (if already in govt service), and name-change documents where applicable. Unsubstantiated claims lead to cancellation of candidature.

STAGE 5 — PHYSICAL EFFICIENCY TEST & MEDICAL EXAMINATION

Applies to specific posts — notably Junior Engineer in the Border Roads Organisation (BRO/GREF) — which carry stringent Physical Efficiency Test, Physical Standards, and Medical Examination requirements, conducted by the User Department after the final result. Candidates found unfit may not be considered for any other post either.

Minimum Qualifying Marks (Paper-I & Paper-II)

Category	Qualifying Marks
UR (Unreserved)	30%
OBC / EWS	25%
All Other Categories	20%

Key Notes: Separate merit lists for JE (Civil), JE (Electrical & Mechanical), SA (IMD), and JE (Telecom). Marks normalized across shifts. Final allotment is merit-cum-preference based and cannot be changed once made. No re-evaluation/re-checking is permitted at any stage.

This document is based on the official SSC Junior Engineer Examination 2026 Notice. Candidates should refer to the original notification PDF on ssc.gov.in for complete details and any updates.