

SSC JE 2026

Paper 1 — Syllabus & Exam Pattern

Staff Selection Commission Junior Engineer Examination — based on the official SSC JE 2026 notification released on September 2, 2026. Paper 1 is qualifying in nature and is used to shortlist candidates for Paper 2.

1. SSC JE Paper 1 — Exam Pattern

Section	No. of Questions	Maximum Marks
General Intelligence & Reasoning	50	50
General Awareness	50	50
General Engineering (Relevant Technical Subject — Part A to Part G)	100	100
Total	200	200

Mode: Computer-Based Examination (CBE), objective type, in English & Hindi. **Duration:** 2 hours (2 hours 40 minutes for scribe-eligible candidates). **Negative Marking:** applicable for wrong answers. Paper 1 is qualifying in nature; only normalized Paper 2 marks are used for final merit.

2. SSC JE Paper 1 — Syllabus

Section	Syllabus Coverage
General Intelligence & Reasoning	Verbal and non-verbal 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, abstract ideas and symbols, arithmetical computations, and other analytical functions.
General Awareness	Current events and general awareness of the environment and its application to society. Covers India and neighbouring countries — History, Culture, Geography, Economic Scene, General Polity, Scientific Research, and everyday scientific observations.
General Engineering / Technical Subject	One relevant technical part (A–G) as applicable to the candidate's post and educational qualification — see technical breakdown below.

3. Technical Subject Breakdown (Part A – Part G)

Candidates attempt only the part applicable to their post and educational qualification.

Part A — Civil & Structural Engineering

Engineering Mechanics, Solid Mechanics, Structural Analysis, Construction Materials and Management, Estimating, Costing and Valuation, Concrete Structures, Steel Structures, Surveying, Soil Mechanics (Geotechnical Engineering), Fluid Mechanics and Hydraulics, Hydrology and Irrigation Engineering, Environmental Engineering, and Transportation (Traffic) Engineering.

Part B — Electrical Engineering

Fundamentals of Electrical Engineering, Magnetic Circuits, A.C. Fundamentals, Measurement and Measuring Instruments, Electrical Machines, Special Electric Machines and Synchronous Generators, Generation, Transmission and 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, 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, Data Conversion & Codes, Antennas, Radio Wave Propagation, Electromagnetic Spectrum, Modulation, Single Sideband, Frequency Modulation, Pulse Modulation, Multiplexing, Digital Communication, RF Communications, and Wireless Telecommunications.

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, Network Analysis, Signals and Systems, Electronic Devices, Analog Circuits, Digital Circuits, Control Systems, Analog Communications, Digital Communications, and Electromagnetics.

Note: Standard of questions for Civil, Mechanical, and Electrical Engineering is approximately Diploma level; for Computer Science & IT, Electronics & Telecom, Physics, and Telecommunication Engineering it is approximately graduation level. Compiled from the SSC JE 2026 official notification and syllabus summaries for reference — always cross-check with the official notification at ssc.gov.in.