Railway Recruitment Boards Junior Engineer-2025 CBT-II

Online Test Series

Electronics and Allied Engineering - Schedule

No.of Tests : 20	
Subject wise Tests	16
Full Length Mock Tests	4

Note:

★ The syllabus is considered as per the notifications of the RRB. ACE Engineering Academy does not take responsibility for any changes or deviations in the final RRB-JE-2025 CBT-II examination syllabus. As per the RRB-JE-2025 notification, each question carries '1' mark, and there is negative marking of 1/3rd (i.e., 0.33 marks) for each wrong answer.

★ The test dates may change depending on the RRB-JE-2025 CBT-II examination schedule.

★ Tests will be activated at 6:00 PM on the scheduled day.

★ All tests will remain active until the RRB-JE-2025 CBT-II examination.

★ The test series is available only in English medium.

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Subject-wise Tests

(No.of Questions: 40, Time duration: 32 Minutes and Max Marks: 40 M)

Test No	Name of the Test	Date of Activation
Test-01	General Awareness	01-04-2026
Test-02	Electronic Components & Materials	02-04-2026
Test-03	Basic Electrical Engg.	04-04-2026
Test-04	Physics & Chemistry	05-04-2026
Test-05	Communication Engineering	07-04-2026
Test-06	Linear Integrated Circuit	08-04-2026
Test-07	Basics of Computers and Applications	10-04-2026
Test-08	Electronic Measurements	11-04-2026
Test-09	Digital Electronics	13-04-2026
Test-10	Basics of Environment and Pollution Control	14-04-2026
Test-11	Microprocessor and Microcontroller	16-04-2026
Test-12	Data communication and Network	17-04-2026
Test-13	General Awareness + Basics of Environment and Pollution Control	19-04-2026
Test-14	Electronic Devices and circuits	20-04-2026
Test-15	Computer Programming	22-04-2026
Test-16	Physics & Chemistry + Basics of Computers and Applications	23-04-2026

Full Length Mock Test Series

(No.of Questions: 150, Time duration: 120 Minutes and Max Marks: 150)

Test-17	Full Length Mock Test-01	30-04-2026
Test-18	Full Length Mock Test-02	04-05-2026
Test-19	Full Length Mock Test-03	08-05-2026
Test-20	Full Length Mock Test-04	12-05-2026

Syllabus for CBT-II
Electronics and Allied Engineering

The section wise Number of questions and marks are as below:

Subjects	STAGE-II (CBT-II)	
	No. of Questions	**Marks for each Section**
General Awareness	15	15
Physics & Chemistry	15	15
Basics of Computers and Applications	10	10
Basics of Environment and Pollution Control	10	10
Technical Abilities	100	100
Total	150	150
Time in Minutes	120	

* The section wise distribution given in the above table is only indicative and there may be some variationsin the actual question papers.

General Awareness	Knowledge of Current affairs, Indian geography, culture and history of India including freedom struggle, Indian Polity and Constitution, Indian Economy, Environmental issues concerning India and the World, Sports, General Scientific and Technological Developments etc.
Physics and Chemistry	Up to 10th standard CBSE syllabus.
Basics of Computers and Applications	Architecture of Computers; input and Output devices; Storage devices, Networking, Operating System like Windows, Unix, Linux; MS Office; Various data representation; Internet and Email; Websites & Web Browsers; Computer Virus.
Basics of Environment and Pollution Control	Basics of Environment; Adverse effect of environmental pollution and control strategies; Air, water and Noise pollution, their effect and control; Waste Management, Global warming; Acid rain; Ozone depletion.

Technical Abilities

Electronic Components & Materials	Conductors, Semi conductor & Insulators; Magnetic materials; Jointing & Cleaning materials for U/G copper cable & OFC; Cells and Batteries (chargeable and non chargeable); Relays, Switches, MCB & Connectors.
Electronic Devices and circuits	PN Junction diodes, thyristor; Diode and triode circuits; Junction Transistors; Amplifiers; Oscillator; Multivibrator, counters; Rectifiers; Inverter and UPS.
Digital Electronics	Number System & Binary codes; Boolean Algebra & Logic gates; Combinational & Sequential logic circuits; A/D & D/A converter, counters; Memories
Linear Integrated Circuit	Introduction to operational Amplifier; Linear applications; Non Linear applications; Voltage regulators; Timers; Phase lock loop.
Microprocessor and Microcontroller	Introduction to microprocessor, 8085 microprocessor working; Assembly Language programming; Peripherals & other microprocessors; Microcontrollers
Electronic Measurements	Measuring systems; Basic principles of measurement; Range Extension methods; Cathode ray oscilloscope, LCD, LED panel; Transducers
Communication Engineering	Introduction to communication; Modulation techniques; Multiplexing Techniques; Wave Propagation, Transmission line characteristics, OFC; Fundamentals of Public Address systems, Electronic exchange, Radar, Cellular and Satellite Communication.
Data communication and Network	Introduction to data communication; Hardware and interface; Introduction to Networks and Networking devices; Local Area Network and Wide area network; Internet working.
Computer Programming	Programming concepts; Fundamentals of 'C' and C ++; Operators in 'C' and C ++; Control Statements; Functions, Array String & Pointers, File Structure; Data Structure and DBMS
Basic Electrical Engg.	DC Circuits; AC fundamentals; Magnetic, Thermal and Chemical effects of Electric current; Earthing - Installation, Maintenance, Testing.