ACE Engineering Academy
(Leading institute for ESE/GATE/PSUs)

RRB (JE)-2019

Online Test Series

STAGE - II

ELECTRONICS AND ALLIED ENGINEERING

No. of Tests : 20

Subject Wise Tests	16
Full Length Mock Tests	4

TEST SERIES HIGHLIGHTS

- ★ Rank will be given for each test.
- ★ Test wise and overall statistics.
- ★ Comparison with toppers.
- ★ Question wise and test wise time analysis & comparison with toppers on time management.

Subject-wise Tests

Tests will be activated at 6:00 pm on scheduled day

Test No	Subject Name		No. of Questions	Max Marks	Duration	Date of Activation
Test-01	Non-Tech	General Awareness	37	37	30 Min	06-05-2019
Test-02	Tech	Electronic Components & Materials	37	37	30 Min	07-05-2019
Test-03	Tech	Basic Electrical Engg.	37	37	30 Min	09-05-2019
Test-04	Non-Tech	Physics and Chemistry	37	37	30 Min	11-05-2019
Test-05	Tech	Electronic Devices and circuits	37	37	30 Min	12-05-2019
Test-06	Tech	Linear Integrated Circuit	37	37	30 Min	14-05-2019
Test-07	Non-Tech	Basics of Computers and Applications	37	37	30 Min	16-05-2019
Test-08	Tech	Electronic Measurements	37	37	30 Min	17-05-2019
Test-09	Tech	Digital Electronics	37	37	30 Min	19-05-2019
Test-10	Non-Tech	Basics of Environment and Pollution Control	37	37	30 Min	21-05-2019
Test-11	Tech	Microprocessor and Microcontroller	37	37	30 Min	22-05-2019
Test-12	Tech	Communication Engineering	37	37	30 Min	24-05-2019
Test-13	Non-Tech	General Awareness + Basics of Environment and Pollution Control	37	37	30 Min	26-05-2019
Test-14	Tech	Data communication and Network	37	37	30 Min	27-05-2019
Test-15	Tech	Computer Programming	37	37	30 Min	29-05-2019
Test-16	Non-Tech	Physics and Chemistry + Basics of Computers and Applications	37	37	30 Min	31-05-2019

Full Length Mock Tests

Test No		No. of Questions	Max Marks	Duration	Date of Activation
Test-17	Full Length Mock Test - 1	150	150	2 Hours	17-06-2019
Test-18	Full Length Mock Test - 2	150	150	2 Hours	27-06-2019
Test-19	Full Length Mock Test - 3	150	150	2 Hours	20-07-2019
Test-20	Full Length Mock Test - 4	150	150	2 Hours	27-07-2019

Note: The Syllabus considered as per Notifications of RRB. ACE Engineering Academy does not take any responsibility for deviations in syllabus in the final RRB exam. As per Notification of RRB each question carries '1' mark and negative marking of 1/3rd (i.e. 0.33 Marks) for each wrong answer.

Syllabus for RRB (JE) STAGE-II
(Electronics and Allied Engineering)

Subjects	STAGE-II	
	No. of Questions	Marks for each Section
General Awareness	15	15
Physics and 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 variations in the actual question papers.

Subject Name	Syllabus
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	
Subject Name	**Syllabus**
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; Multi vibrator, 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,