



**ACE**<sup>®</sup>  
Engineering Academy  
Leading Institute for ESE/GATE/PSUs



## STAFF SELECTION COMMISSION JUNIOR ENGINEER(Paper-I) EXAMINATION-2026

# Online Test Series

### Electrical Engineering - Schedule

No.of Tests : 20 + (20 <i>free</i> practice tests)		
	SSC-JE-2026 Test Series	Practice Tests
Subject Wise Tests	16	16
Full Length Mock Tests	4	4
<b>Total Tests - 40</b>		

**Note:**

- ❖ The syllabus is based on the previous SSC-JE notification. ACE Engineering Academy does not take responsibility for any changes or deviations in the final SSC-JE examination syllabus.
- ❖ As per the previous SSC-JE notification, each question carries 1 mark, with negative marking of 0.25 marks for every incorrect answer.
- ❖ The test dates may change depending on the SSC-JE (Paper-I) examination schedule.
- ❖ Tests will be activated at 6:00 PM on the scheduled day.
- ❖ All tests will remain active until the SSC-JE-2026 (Paper-I) examination.
- ❖ The test series is available only in English medium.

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## Subject-wise Tests

*(No. of Questions: 50, Time duration: 30 Minutes and Marks: 50 M)*

Test No	Name of the Test	Date of Activation
Test-01	General Intelligence and Reasoning-1	10-04-2026
Test-02	<p><b>Basic concepts:</b>            Concepts of resistance, inductance, capacitance, and various factors affecting them.            Concepts of current, voltage, power, energy and their units.</p>	13-04-2026
Test-03	General Awareness-1	14-04-2026
Test-04	<p><b>Circuit law, Magnetic Circuit and AC Fundamentals:</b>            Circuit law : Kirchhoff's law, Simple Circuit solution using network theorems.            Magnetic Circuit : Concepts of flux, mmf, reluctance, Different kinds of magnetic materials, Magnetic calculations for conductors of different configuration e.g. straight, circular, solenoidal, etc. Electromagnetic induction, self and mutual induction.            AC Fundamentals: Instantaneous, peak, R.M.S. and average values of alternating waves, Representation of sinusoidal wave form, simple series and parallel AC Circuits consisting of R.L. and C, Resonance, Tank Circuit. Poly Phase system – star and delta connection, 3 phase power, DC and sinusoidal response of R-Land R-C circuit.</p>	16-04-2026
Test-05	General Intelligence and Reasoning-2	17-04-2026
Test-06	<p><b>Measurement and measuring instruments:</b>            Measurement of power (1 phase and 3 phase, both active and re-active) and energy, 2 wattmeter method of 3 phase power measurement. Measurement of frequency and phase angle. Ammeter and voltmeter (both moving oil and moving iron type), extension of range wattmeter, Multimeters, Megger, Energy meter AC Bridges. Use of CRO, Signal Generator, CT, PT and their uses. Earth Fault detection.</p>	20-04-2026
Test-07	General Awareness-2	21-04-2026
Test-08	<p><b>Electrical Machines-1:</b>            (a) D.C. Machine – Construction, Basic Principles of D.C. motors and generators, their characteristics, speed control and starting of D.C. Motors. Method of braking motor, Losses and efficiency of D.C. Machines. (b) 1 phase and 3 phase transformers – Construction, Principles of operation, equivalent circuit, voltage regulation, O.C. and S.C. Tests, Losses and efficiency. Effect of voltage, frequency and ave form on losses. Parallel operation of 1 phase /3 phase transformers. Auto transformers.</p>	23-04-2026
Test-09	General Intelligence and Reasoning-3	24-04-2026
Test-10	<p><b>Electrical Machines-2:</b>            (c) 3 phase induction motors, rotating magnetic field, principle of operation, equivalent circuit, torque-speed characteristics, starting and speed control of 3 phase induction motors. Methods of braking, effect of voltage and frequency variation on torque speed characteristics.            Fractional Kilowatt Motors and Single Phase Induction Motors: Characteristics and applications.</p>	27-04-2026

Test No	Name of the Test	Date of Activation
Test-11	General Awareness-3	28-04-2026
Test-12	<b>Synchronous Machines:</b> Generation of 3-phase e.m.f. armature reaction, voltage regulation, parallel operation of two alternators, synchronizing, control of active and reactive power. Starting and applications of synchronous motors.	30-04-2026
Test-13	General Intelligence and Reasoning-4	01-05-2026
Test-14	<b>Generation, Transmission and Distribution:</b> Different types of power stations, Load factor, diversity factor, demand factor, cost of generation, inter-connection of power stations. Power factor improvement, various types of tariffs, types of faults, short circuit current for symmetrical faults. Switchgears – rating of circuit breakers, Principles of arc extinction by oil and air, H.R.C. Fuses, Protection against earth leakage / over current, etc. Buchholtz relay, Merz-Price system of protection of generators & transformers, protection of feeders and bus bars. Lightning arresters, various transmission and distribution system, comparison of conductor materials, efficiency of different system. Cable – Different type of cables, cable rating and derating factor.	04-05-2026
Test-15	General Awareness-4	05-05-2026
Test-16	<b>Estimation and costing, Utilization of Electrical Energy and Basic Electronics:</b> Estimation and costing : Estimation of lighting scheme, electric installation of machines and relevant IE rules. Earthing practices and IE Rules. Utilization of Electrical Energy : Illumination, Electric heating, Electric welding, Electroplating, Electric drives and motors. Basic Electronics : Working of various electronic devices e.g. P N Junction diodes, Transistors (NPN and PNP type), BJT and JFET. Simple circuits using these devices.	07-05-2026

## Full Length Mock Test Series

*(No. of Questions: 200, Time duration: 120 Minutes and Marks: 200 M)*

Test-17	Full Length Mock Test-1	18-05-2026
Test-18	Full Length Mock Test-2	25-05-2026
Test-19	Full Length Mock Test-3	01-06-2026
Test-20	Full Length Mock Test-4	08-06-2026

# Free Practice Tests

## Subject-wise Tests

*(No. of Questions: 50, Time duration: 30 Minutes and Marks: 50 M)*

Test No	Name of the Test	Date of Activation
Test-01	General Intelligence and Reasoning-1	01-03-2026
Test-02	<b>Basic concepts:</b> Concepts of resistance, inductance, capacitance, and various factors affecting them. Concepts of current, voltage, power, energy and their units.	
Test-03	General Awareness-1	
Test-04	<b>Circuit law, Magnetic Circuit and AC Fundamentals:</b> Circuit law : Kirchhoff's law, Simple Circuit solution using network theorems. Magnetic Circuit : Concepts of flux, mmf, reluctance, Different kinds of magnetic materials, Magnetic calculations for conductors of different configuration e.g. straight, circular, solenoidal, etc. Electromagnetic induction, self and mutual induction. AC Fundamentals: Instantaneous, peak, R.M.S. and average values of alternating waves, Representation of sinusoidal wave form, simple series and parallel AC Circuits consisting of R.L. and C, Resonance, Tank Circuit. Poly Phase system – star and delta connection, 3 phase power, DC and sinusoidal response of R-Land R-C circuit.	
Test-05	General Intelligence and Reasoning-2	
Test-06	<b>Measurement and measuring instruments:</b> Measurement of power (1 phase and 3 phase, both active and re-active) and energy, 2 wattmeter method of 3 phase power measurement. Measurement of frequency and phase angle. Ammeter and voltmeter (both moving oil and moving iron type), extension of range wattmeter, Multimeters, Megger, Energy meter AC Bridges. Use of CRO, Signal Generator, CT, PT and their uses. Earth Fault detection.	
Test-07	General Awareness-2	
Test-08	<b>Electrical Machines-1:</b> (a) D.C. Machine – Construction, Basic Principles of D.C. motors and generators, their characteristics, speed control and starting of D.C. Motors. Method of braking motor, Losses and efficiency of D.C. Machines. (b) 1 phase and 3 phase transformers – Construction, Principles of operation, equivalent circuit, voltage regulation, O.C. and S.C. Tests, Losses and efficiency. Effect of voltage, frequency and ave form on losses. Parallel operation of 1 phase /3 phase transformers. Auto transformers.	
Test-09	General Intelligence and Reasoning-3	
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Test No	Name of the Test	Date of Activation
Test-11	General Awareness-3	<b>01-03-2026</b>
Test-12	<b>Synchronous Machines:</b> Generation of 3-phase e.m.f. armature reaction, voltage regulation, parallel operation of two alternators, synchronizing, control of active and reactive power. Starting and applications of synchronous motors.	
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Test-14	<b>Generation, Transmission and Distribution:</b> Different types of power stations, Load factor, diversity factor, demand factor, cost of generation, inter-connection of power stations. Power factor improvement, various types of tariffs, types of faults, short circuit current for symmetrical faults. Switchgears – rating of circuit breakers, Principles of arc extinction by oil and air, H.R.C. Fuses, Protection against earth leakage / over current, etc. Buchholtz relay, Merz-Price system of protection of generators & transformers, protection of feeders and bus bars. Lightning arresters, various transmission and distribution system, comparison of conductor materials, efficiency of different system. Cable – Different type of cables, cable rating and derating factor.	
Test-15	General Awareness-4	
Test-16	<b>Estimation and costing, Utilization of Electrical Energy and Basic Electronics:</b> Estimation and costing : Estimation of lighting scheme, electric installation of machines and relevant IE rules. Earthing practices and IE Rules. Utilization of Electrical Energy : Illumination, Electric heating, Electric welding, Electroplating, Electric drives and motors. Basic Electronics : Working of various electronic devices e.g. P N Junction diodes, Transistors (NPN and PNP type), BJT and JFET. Simple circuits using these devices.	

### Full Length Mock Test Series

*(No. of Questions: 200, Time duration: 120 Minutes and Marks: 200 M)*

Test-17	Full Length Mock Test-1	<b>10-03-2026</b>
Test-18	Full Length Mock Test-2	
Test-19	Full Length Mock Test-3	
Test-20	Full Length Mock Test-4	