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Engineering Academy
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APPSC

ASSISTANT EXECUTIVE ENGINEERS

Online Test Series

Electrical Engineering - Schedule

No.of Tests : 35			
	Paper-I	Paper-II	Paper-III
Subject Wise Tests	11	9	9
Full Length Mock Tests	2	2	2

Note:

- ❖ The syllabus is based on the previous APPSC-AEE notification. ACE Engineering Academy does not take responsibility for any changes or deviations in the final APPSC-AEE examination syllabus.
- ❖ As per the previous APPSC-AEE notification, each question carries 1 mark and each wrong answer will be penalized with 1/3rd of the marks prescribed for the question.
- ❖ The test dates may change depending on the APPSC-AEE examination schedule.
- ❖ Tests will be activated at 6:00 PM on the scheduled day.
- ❖ All tests will remain active until the APPSC-AEE examination.
- ❖ The test series is available only in English medium.

Paper-I

Subject wise Tests

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

Test No	Name of the Test	Date of Activation
Test-01	General Studies and Mental Ability-1: General Science and its applications to the day to day life Contemporary developments in Science & Technology and Information Technology.	15-05-2026
Test-02	General Studies and Mental Ability-2: History of India – emphasis will be on broad general understanding of the subject in its social, economic, cultural and political aspects with a focus on Indian National Movement.	19-05-2026
Test-03	General Studies and Mental Ability-3: Geography of India	23-05-2026
Test-04	General Studies and Mental Ability-4: Indian Polity and Governance: constitutional issues, public policy, reforms and e-Governance initiatives.	27-05-2026
Test-05	General Studies and Mental Ability-5: Indian Economy and Planning	31-05-2026
Test-06	General Studies and Mental Ability-6: Sustainable Development and Environmental Protection	04-06-2026
Test-07	General Studies and Mental Ability-7: Disaster Management: vulnerability profile, prevention and mitigation strategies, Application of Remote Sensing and GIS in the assessment of Disaster.	08-06-2026
Test-08	General Studies and Mental Ability-8: Andhra Pradesh- Economy, Geography and History	12-06-2026
Test-09	General Studies and Mental Ability-9: Major Current Events and Issues pertaining to International, National and State of Andhra Pradesh.	16-06-2026
Test-10	General Studies and Mental Ability-10: Logical reasoning, analytical ability and logical interpretation.	20-06-2026
Test-11	General Studies and Mental Ability-11: Data Analysis: Tabulation of data Visual representation of data Basic data analysis (Summary Statistics such as mean, median, mode and variance) and Interpretation.	24-06-2026

Full Length Mock Tests

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

Test-12	Full Length Mock Test-1	Date will be updated soon
Test-13	Full Length Mock Test-2	

Paper-II

Subject wise Tests

(No. of Questions: 20, Time duration: 20 Minutes and Marks: 20 M)

Test No	Name of the Test	Date of Activation
Test-14	Electric Circuits: Active and passive network elements – dependent and independent sources – response of passive elements to arbitrary excitations – energy stored in inductance and capacitance – Kirchoff's laws – formation of mesh and Nodal Integro differential equations – their solutions by classical and Laplace transformation methods – Transient and steady state response of RL, RC elements to impulse, step, ramp and sinusoidal inputs – single phase AC circuits – methods of solutions – poly phase circuits – analysis of balanced and unbalanced circuits – measurements of three phase power.	25-06-2026
Test-15	Electrical Measurements and Instruments: Absolute and secondary instrument types – Principle of operation of different type of instrument – extension of instrument ranges – measurement of voltage, current, power and energy – localization of cable faults – Murray loop and Varley loop tests – Cathode ray Oscilloscope.	27-06-2026
Test-16	Illumination: Solid angle, luminous flux, luminous intensity – Illumination and candle power – laws of Illumination – flood lighting, street lighting – electric lamps.	29-06-2026
Test-17	DC Generators and Motors: Types of DC generators – EMF equation – constructional details – characteristics of shunt, series and compound generators – Armature reaction – types of DC motors – Torque developed in a DC motor – speed controls of DC motors and starters.	01-07-2026
Test-18	Transformers: Constructional details – Principle of operation – vector diagrams on no load and load – regulation and efficiency – equivalent circuits and tests for the determination of parameters of equivalent circuits – types of three phase transformers and their applications – Scott connection of transformers.	03-07-2026
Test-19	3-Phase Induction Motors: Principle of operation – Cage and Slip ring motors – torque slip characteristics – methods of speed control.	05-07-2026
Test-20	3-Phase Alternators: Principle of operation and constructional details – types of Alternators – synchronous impedance – voltage regulation – short circuit ratio and its importance – Phasor diagrams of round rotor and salient pole machines – synchronization– behaviour of an alternator connected to infinite bus – effect of varying excitation current and mechanical torque – power angle curves – control of active and reactive powers.	20-07-2026
Test-21	3-Phase Synchronous Motors: Principle of operation – torque developed and methods of starting – V and Inverted V curves – effects of variations of excitation – synchronous condensers.	23-07-2026
Test-22	Single phase induction Motors: Types of single phase motors – Types of Single phase induction motors – characteristics and methods of starting – shaded pole induction motor.	27-07-2026

Test No	Name of the Test	Date of Activation
Full Length Mock Tests <i>(No. of Questions: 150, Time duration: 150 Minutes and Marks: 150 M)</i>		
Test-23	Full Length Mock Test-1	Date will be updated soon
Test-24	Full Length Mock Test-2	

Paper-III

Subject wise Tests

(No. of Questions: 15, Time duration: 15 Minutes and Marks: 15 M)

Test No	Name of the Test	Date of Activation
Test-25	Transmission & Distribution: Line constants – Inductance and Capacitance calculations – Representation of over head Lines – Short, Medium and Long lines – ABCD constants – Mechanical Design – Sag, Tension Calculations, Tuned Power Lines.	Date will be updated soon
Test-26	Over Head Line Insulators: Types of Insulators – Potential distributions over a string of suspension insulators – string efficiency – Methods of improving string efficiency.	
Test-27	Underground Cables: Insulation of cables – Grading of cables – Capacitance Measurement in cables – Testing of Cables – Power frequency withstand tests.	
Test-28	Fault Calculations: Balanced Fault calculations on systems – Symmetrical components – Types of faults – Analysis of unbalanced faults.	
Test-29	Generating Stations: Location and types, types of hydroelectric power stations, layout of a hydro-power plant, types of turbines used – Pumped storage installations – Layout of thermal electric power stations, types of turbines used, condensers, cooling towers, boiler feed pump; energy flow diagram of steam power plant. Nuclear power generation; nuclear fission – types of nuclear power reactors – Principle of a fast breeder reactor.	
Test-30	Protection: Characteristic of Relays – Over current, directional and distance protection of lines. Protection of Alternators against stator faults, rotor faults, loss of excitation, unbalanced loading, overloading, failure of prime-mover. Over speeding and over voltage. Protection of transformers against winding faults, overloads and external short circuits.	
Test-31	Circuit Breakers: Air-blast, oil, minimum oil, vacuum – sulphur hexafluoride and d.c. circuit breakers – Relative merits and demerits.	

Test No	Name of the Test	Date of Activation
Test-32	Economic Aspects: Generation costs and their classification, load curve, load utilization and plant capacity factors. Load sharing between base load and peak-load stations. Load forecasting. Economical distribution of load between unit within a plant and between plants. Modeling of fuel costs for thermal generation. Optimal operation of an all thermal generating system and of a hydro-thermal system. Consideration of transmission losses.	Date will be updated soon
Test-33	Utilization of Electrical Energy: Industrial drives – Motors for various drives – Estimating and Rating – Testing of D.C. and A.C. motors – Neutral Earthing.	
Full Length Mock Tests <i>(No.of Questions: 150, Time duration: 150 Minutes and Marks: 150 M)</i>		
Test-34	Full Length Mock Test-1	Date will be updated soon
Test-35	Full Length Mock Test-2	