APPSC
ASSISTANT EXECUTIVE ENGINEERS
Online Test Series

Civil & Mechanical Engineering - Schedule

For Post Code No. 2 & 6
Panchayat Raj & Rural Development and Tribal Welfare Engineering Dept

PAPER-III

No.of Subject Wise Tests : 6

Note:

- The syllabus is based on the APPSC-AEE-2026 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-2026 examination schedule.
- Tests will be activated at 6:00 PM on the scheduled day.
- All tests will remain active until the APPSC-AEE -2026 examination.
- The test series is available only in English medium.

Paper-III

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	**Engineering Drawing:** Conic Sections including the Rectangular Hyperbola. Cycloid, Epicycloid and Hypocycloid, Involute. Scales – Plain, Diagonal and Vernier Scales. Principles of Orthographic Projections – Conventions – Projections of Points and Lines Projections of Plane regular geometric figures, Projections of Regular Solids – Auxiliary Views. Sections or Sectional views of Right Regular Solids – Prism, Cylinder, Pyramid, Cone – Auxiliary views – Sections of Sphere. Development of Surfaces of Right Regular Solids – Prism, Cylinder, Pyramid and Cone Principles of Isometric Projection – Isometric Scale – Isometric Views – Conventions – Isometric Views of Lines, Plane Figures, Simple and Compound Solids – Isometric Projection of objects having non- isometric lines. Isometric Projection of Spherical Parts. Conversion of Isometric Views to Orthographic Views and Vice-versa – Conventions Auto- CAD: Basic principles.	01-12-2026
Test-02	**Electrical Circuits:** R-L-C Parameters, Voltage and Current Independent and Dependent Sources, Source Transformation – V–I relationship for Passive elements, Kirchoff's Laws, Network reduction techniques – series, parallel, series- parallel, star to-delta, delta-to-star transformation, **Single Phase AC Circuits:** R.M.S. and Average values, Form Factor, steady state analysis of series, Parallel and Series parallel Combinations of R, L and C with Sinusoidal excitation, concept of reactance, Impedance, Susceptance and Admittance – phase and phase difference, Concept of Power Factor, j-notation.	07-12-2026
Test-03	**P-N Junction Diode:** Diode equation, Energy Band diagram, Volt- Ampere characteristic, Temperature dependence, Static and dynamic resistances, Equivalent circuit, Diffusion and Transition Capacitances. **Bipolar Junction Transistor (BJT):** Construction, Principle of Operation, Symbol, Amplifying Action, Common Emitter, Common Base and Common Collector configurations. Concepts of feedback amplifiers and oscillators **Special Purpose Devices:** Breakdown Mechanisms in Semi Conductor Diodes, Zener diode characteristics, Use of Zener diode as simple regulator. **Rectifiers and Linear ICs:** PN junction diode applications as Half ware, full ware and Bridge Rectifiers, characteristics of Op-Amp, Application of Op – Amps (Inverting, Non – Inverting, Differentiator and Integrator)	13-12-2026

Test No	Name of the Test	Date of Activation
Test-04	**Computer Fundamentals:** Basics of computer and its operation: Functional Components and their inter connections, concept of Booting, Use of Operating System for directory listing, hierarchical directory structure, renaming, deleting files/folders, Memory and types of memory, working of USB flash drives, copying files, concepts of path and pathname, switching between tasks, installation/removal of applications.	19-12-2026
Test-05	**Environmental Science:** Definition, Scope and Importance – Need for Public Awareness. Renewable and non renewable resources – Natural resources and associated problems – Forest resources – Use and over – exploitation, deforestation– Timber extraction – Mining, dams and other effects on forest and tribal people – Water resources – Use and over utilization of surface and ground water – Floods, drought, conflicts over water, dams – benefits and problems - Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources. - Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity. - Energy resources: Growing energy needs, renewable and non-renewable energy sources use of alternate energy sources. Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. Role of an individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles. **Ecosystems:** Concept of an ecosystem. - Structure and function of an ecosystem. - Producers, consumers and decomposers. - Energy flow in the ecosystem - cological succession. - Food chains, food webs and ecological pyramids. - Introduction, types and characteristic features, Structure and function of Forest, Grassland, Desert and Aquatic ecosystems. **Biodiversity and its Conservation:** Introduction - Definition: genetic, species and ecosystem diversity. - Bio-geographical classification of India - Value of biodiversity: consumptive use, productive use, social, ethical, aesthetic and option values - . Biodiversity at global, national and local levels. India as a mega-diversity nation - Hot-sports of biodiversity - Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts. - Endangered and endemic species of India – Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity. Definition, Cause, effects and control measures of Air pollution, Water pollution, Soil pollution, Marine pollution, Noise pollution, Thermal pollution and Nuclear hazards.	25-12-2026

Test No	Name of the Test	Date of Activation
Test-06	**Solid Waste Management:** Causes, effects and control measures of urban and industrial wastes. - Role of an individual in prevention of pollution. **Disaster management:** floods, earthquake, cyclone and landslides. **Social issues and the environment:** From Unsustainable to Sustainable development - Urban problems related to energy – Water conservation, rain water harvesting, watershed management - Resettlement and rehabilitation of people; its problems and concerns. Environmental ethics: Issues and possible solutions. Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Wasteland reclamation. Consumerism and waste products. Environment Protection Act. Air (Prevention and Control of Pollution) Act. Water (Prevention and control of Pollution) Act. Wildlife Protection Act. Forest Conservation Act - Issues involved in enforcement of environmental legislation. Public awareness. **Human population and the environment:** Population growth, variation among nations. Population explosion - Family Welfare Programme. Environment and human health. Human Rights. Value Education. HIV/AIDS. Women and Child Welfare. Role of information Technology in Environment and human health.	31-12-2026