



ACE[®]
Engineering Academy
Leading Institute for ESE/GATE/PSUs

TSPSC

**ASSISTANT ENGINEER, MUNICIPAL
ASSISTANT ENGINEER, TECHNICAL OFFICER AND
JUNIOR TECHNICAL OFFICER**

Online Test Series

Civil Engineering - Schedule

No.of Tests : 24	
Subject Wise Tests	20
Full Length Mock Tests	4

Note:

- ★ The Syllabus considered as per Notification of TSPSC. ACE Engineering Academy does not take any responsibility for deviations in syllabus in the final exam.
- ★ The Dates of Tests may Change according to the TSPSC Exam schedule.
- ★ All Tests will be active till TSPSC-AE Examination.
- ★ *Test series available in ENGLISH medium only.*
- ★ Tests will be activated at 06:00 pm on the scheduled day.

Subject-wise Tests

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

Test No	Name of the Test	Date of Activation
Test-01	Surveying: Fundamental concepts; Classification of Surveys; Chain Surveying; Compass Surveying; Levelling and Contouring; Theodolite Surveying; Tacheometry; Curves; Introduction and fundamental concepts of electronic measuring instruments - EDM, Total Station, GIS & GPS.	24-10-2022
Test-02	General Studies and General Abilities-1: General Science; India's achievements in Science and Technology	27-10-2022
Test-03	Construction Materials & Practice: Properties and uses of construction materials - Stones, Bricks, Tiles, Sand, Cement, Timber, Plastics, Glass, Asbestos, Paints, Distempers, Enamels and Varnishes; Preparation of Cement mortar for various works. Classification of Buildings as per NBC, Site investigation for foundation as per NBC - Trial Pit and auger boring, classification of foundations, construction of spread footing and well foundation; Stone and Brick masonry - types and principles of construction; Doors and Windows - types, fittings and fastenings, types and functions of Lintels, Sunshades and Roofs, Flooring - Construction and types of material; Types of Stairs; Scaffolding; Types of Plastering, Pointing, Painting and White / Colour Wash.	31-10-2022
Test-04	General Studies and General Abilities-2: Environmental issues and Disaster Management Policies of Telangana State	03-11-2022
Test-05	Engineering Mechanics and Strength of Materials: Forces - types of Forces, Parallelogram, Triangle and Polygon Law of Forces, Lami's theorem; Centre of Gravity and Moment of Inertia; Simple stresses and strains, Hooke's law – stress strain diagram, working strength, elastic constants, Poisson's ratio, Relationship between elastic constants, compound rods, temperature stresses, strain energy, proof resilience, impact loading; Shear force and bending moment diagrams for simply supported, over hanging and cantilever beams, relation between intensity of loading, shear force and bending moment; Theory of simple bending, modulus of section, moment of resistance, distribution of shear stress in rectangular, circular and I-Sections; Deflection in cantilever and simply supported beams subjected to simple loading; Columns and struts - Euler's and Rankine's formulae, Slenderness ratio, simple built-up columns; Analysis of dams and retaining walls; Simple plane and pin-jointed trusses, Stresses by method of joints and method of sections.	07-11-2022
Test-06	General Studies and General Abilities-3: Economy of India and Telangana	10-11-2022
Test-07	Hydraulics: Properties of fluids, fluid pressure and its measurement; Types of flows, energies in fluid motion, Bernoulli's theorem and its applications – venturimeter, pitot tube; Orifice and mouthpiece; Notches and weirs; Flow through pipes, hydraulic gradient line and total energy line, laminar and turbulent flow in pipes - Reynolds number, measurement of velocity; open channels; Water turbines – classification, centrifugal and reciprocating pumps; Layout of hydroelectric power plant.	14-11-2022
Test-08	General Studies and General Abilities-4: Geography of India with a focus on Telangana	17-11-2022

Test No	Name of the Test	Date of Activation
Test-09	Quantity Surveying: Abstract estimate, detailed estimate - centreline and long & short wall method, various items of Civil Engineering works as per Indian Standards; General Specifications - earth work, brick / stone masonry in cement mortar, RCC, plastering in cement mortar, Floor finishes with ceramic tiles and marbles, white washing, colour washing; Standard schedule of rates, lead and lift, preparation of lead statement; Computation of earth work - Midordinate, Mean Sectional area, Trapezoidal method, Prismoidal Rule; Approximate estimate – Plinth area and cubic rate estimate.	21-11-2022
Test-10	General Studies and General Abilities-5: Indian Constitution and Polity with a focus on local self Government	24-11-2022
Test-11	RCC structures: Design philosophies – principles and concepts of working stress method and limit state method, loads and permissible stresses, IS specifications, analysis and design - rectangular beam, slab, T-beam, column, footing and stair case.	28-11-2022
Test-12	General Studies and General Abilities-6: Society, Culture, Heritage, Arts and Literature of Telangana	01-12-2022
Test-13	Steel Structures: Properties of steel sections, loads and permissible stresses, IS specifications, Analysis and design - welded joints, beam, column, column base, tension member; Design of roof truss.	05-12-2022
Test-14	General Studies and General Abilities-7: History of Modern India with a focus on Indian National Movement	08-12-2022
Test-15	Irrigation Engineering: Definitions, duty, delta, base period, rainfall and its measurement, factors affecting runoff, methods of computing maximum flood discharge; Classification of head works, component parts of a weir and barrage, factors influencing selection of site - reservoirs and dams; Classification of canals, canal lining, cross drainage works; Soil erosion, water logging, soil water plant relationship; Necessity of irrigation - advantages and disadvantages, irrigation methods.	12-12-2022
Test-16	General Studies and General Abilities-8: History of Telangana with special emphasis on Movement for Telangana Statehood	15-12-2022
Test-17	Environmental Engineering: Basics of ecosystem, water supply scheme; Sources of water; Conveyance of water – pipes, joints and laying; Testing of water, drinking water standards; Treatment of water; Distribution of water; Water supply connection to a building. Quantity of sewage, surface drains, design of sewers running half full, limiting velocities; Laying of sewers, sewer appurtenances; Collection of sewage samples, characteristics of domestic and industrial sewage – BOD, COD; Sewage treatment, septic tank & soak pit, sewage disposal - dilution and sewage farming; House drainage arrangements in buildings; Solid waste - collection and disposal; Air Pollution - sources, effects and controlling methods.	19-12-2022
Test-18	General Studies and General Abilities-9: Current Affairs – Regional, National and International. International Relations and Events.	22-12-2022

Test No	Name of the Test	Date of Activation
Test-19	Transportation Engineering: Alignment of roads - plain and hilly terrain, surveys; Cross section of road structure, width of pavement, Camber, Gradient, Super elevation, Transition curves, horizontal and vertical alignment; Pavement marking, traffic signs, traffic islands. Types of soil, classification of soil - Textural, IS Classification, physical properties - plasticity, cohesion, consolidation, compaction, permeability, compressibility, soil moisture content, specific gravity, density; Bearing capacity of soil.	26-12-2022
Test-20	General Studies and General Abilities-10: Logical Reasoning, Analytical Ability and Data Interpretation Basic English (8th Class Standard)	29-12-2022

Full Length Mock Test Series

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

Test-21	Mock-1 PAPER-II (Engineering Discipline)	05-01-2023
Test-22	Mock-2 PAPER-I (General Studies & General Abilities)	17-01-2023
Test-23	Mock-3 PAPER-II (Engineering Discipline)	24-01-2023
Test-24	Mock-4 PAPER-I (General Studies & General Abilities)	31-01-2023