

# TEST SERIES SCHEDULE

## 2025

**TNPSC****AE****CIVIL**

Sl. No	Subject	Test Series Name	No. of Questions
1	ENGINEERING MECHANICS & STRENGTH OF MATERIALS UNIT - III	FORCES, MOMENTS, FREE BODY DIAGRAM & LAWS OF MECHANICS - GEOMETRIC PROPERTIES OF SURFACES - CENTROD, CENTRE OF GRAVITY MOMENT OF INERTIA AND RELATED THEOREMS - SIMPLE STRESSES AND STRAINS - DIRECT AND INDIRECT STRESSES - ELASTIC CONSTANTS - UNIAXIAL AND THERMAL STRESSES, BENDING STRESSES IN BEAMS, SHEAR STRESSES IN BEAMS - COMBINED STRESSES	50
2	ENGINEERING MECHANICS & STRENGTH OF MATERIALS UNIT - III	TORSION OF SHAFTS - PARALLEL AND SERIES - TRUSSES AND FRAMES - PIN JOINTED FRAMES - ANALYSIS METHOD OF JOINTS - SECTIONS - DETERMINATE STRUCTURES - DEFLECTION OF BEAMS - CANTILEVER, SIMPLY SUPPORTED - DETERMINATE STRUCTURES - SHEAR FORCE & BENDING MOMENT DIAGRAMS	50
3	GS - AE001 INDIAN ECONOMY	NATURE OF INDIAN ECONOMY - FIVE-YEAR PLAN MODELS - AN ASSESSMENT - PLANNING COMMISSION AND NITI AAYOG; SOURCES OF REVENUE - RESERVE BANK OF INDIA - FISCAL POLICY AND MONETARY POLICY - FINANCE COMMISSION - RESOURCE SHARING BETWEEN UNION AND STATE GOVERNMENTS - GOODS AND SERVICES TAX - STRUCTURE OF INDIAN ECONOMY AND EMPLOYMENT GENERATION, LAND REFORMS AND AGRICULTURE - APPLICATION OF SCIENCE AND TECHNOLOGY IN AGRICULTURE - INDUSTRIAL GROWTH - RURAL WELFARE ORIENTED PROGRAMMES - SOCIAL PROBLEMS - POPULATION, EDUCATION, HEALTH, EMPLOYMENT, POVERTY	100
4	HYDRAULICS & WATER RESOURCE ENGINEERING UNIT - VIII	INTRODCUTION TO FLUID PROPERTIES - TYPES OF FLOWS (LAMINAR, TURBULENT, STEADY, UNSTEADY, UNIFORM, NON UNIFORM) - BERNOULLI'S AND EULER'S EQUATIONS - CONTINUITY AND MOMENTUM EQUATIONS - KINEMATICS OF FLOW- FLOW THROUGH PIPES AND LOSSES - MINOR AND MAJOR LOSSES IN PIPES - HYDRAULIC GRADIENT - TOTAL ENERGY LINES (HGL AND TEL) - FLOW MEASUREMENTS - APPLICATION OF BERNOULLI'S THEOREM - ORICES,	50

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		MOUTHPIECE, VENTURI METER - HYDRAULIC PUMPS - CENTRIFUGAL AND RECIPROCATING - CHARACTERISTICS - DISCHARGE, HEADS AND EFFICIENCY CALCULATIONS - OPEN CHANNEL FLOWS	
5	HYDRAULICS & WATER RESOURCE ENGINEERING UNIT - VIII	WATER RESOURCES IN TAMIL NADU - PLANNING OF WATER RESOURCES - WATER MANAGEMENT - MASTER PLAN - FLOOD CONTROL - FLOOD ROUTING - RUN OFF ESTIMATION - HYDROGRAPH - SOIL PLANT WATER RELATIONSHIP - WATER REQUIREMENT FOR CROPS - IRRIGATION METHODS - DESIGN OF ALLUVIAL CANALS AND DESIGN OF HEADWORKS. WATER LOGGING AND WATER RECLAMATION - CROSS DRAINAGE WORKS	50
6	GS - AE002 DEVELOPMENT ADMINISTRATION IN TAMIL NADU	HUMAN DEVELOPMENT INDICATORS IN TAMIL NADU AND A COMPARATIVE ASSESSMENT ACROSS THE COUNTRY - IMPACT OF SOCIAL REFORM MOVEMENTS IN THE SOCIO-ECONOMIC DEVELOPMENT OF TAMIL NADU - POLITICAL PARTIES, AND WELFARE SCHEMES FOR VARIOUS SECTIONS OF PEOPLE - RATIONALE BEHIND THE RESERVATION POLICY, AND ACCESS TO THE SOCIAL RESOURCES - ECONOMIC TRENDS IN TAMIL NADU - ROLE AND IMPACT OF SOCIAL WELFARE SCHEMES IN THE SOCIO-ECONOMIC DEVELOPMENT OF TAMIL NADU - SOCIAL JUSTICE AND SOCIAL HARMONY AS THE CORNERSTONES OF SOCIO-ECONOMIC DEVELOPMENT; EDUCATION AND HEALTH SYSTEMS IN TAMIL NADU; GEOGRAPHY OF TAMIL NADU AND ITS IMPACT ON ECONOMIC GROWTH; ACHIEVEMENTS OF TAMIL NADU IN VARIOUS FIELDS; E-GOVERNANCE IN TAMIL NADU; PUBLIC AWARENESS AND GENERAL ADMINISTRATION - WELFARE ORIENTED GOVERNMENT SCHEMES AND THEIR UTILITY, PROBLEMS IN PUBLIC DELIVERY SYSTEMS; CURRENT SOCIO-ECONOMIC ISSUES; CURRENT AFFAIRS	100
7	ENVIRONMENTAL ENGINEERING AND POLLUTION CONTROL UNIT VI	SOURCES OF WATER - WATER QUALITY PARAMETERS - WATER QUANTITY - WATER DEMAND PREDICTION - CHARACTERISTICS AND ANALYSIS OF WATER - HYDRAULICS FOR CONVEYANCE AND TRANSMISSION - WATER BORNE DISEASES - TYPES OF WATER POLLUTANTS AND THEIR EFFECTS - WATER TREATMENT - PRINCIPLES, FUNCTIONS, AND DESIGN OF WATER TREATMENT PLANT UNITS,	50

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		AERATORS OF FLASH MIXERS, COAGULATION AND FLOCCULATION - FUNCTIONAL DESIGN OF WATER TREATMENT PLANT - DESALINATION PLANT- WATER DISTRIBUTION SYSTEM - PIPE NETWORK ANALYSIS	
8	GS - AE003 INDIAN POLITY	CONSTITUTION OF INDIA - PREAMBLE TO THE CONSTITUTION - SALIENT FEATURES OF THE CONSTITUTION - UNION, STATE AND UNION TERRITORY - CITIZENSHIP, FUNDAMENTAL RIGHTS, FUNDAMENTAL DUTIES, DIRECTIVE PRINCIPLES OF STATE POLICY - UNION EXECUTIVE, UNION LEGISLATURE - STATE EXECUTIVE, STATE LEGISLATURE - LOCAL GOVERNMENTS, PANCHAYAT RAJ - SPIRIT OF FEDERALISM - CENTRE - STATE RELATIONSHIPS - ELECTION - JUDICIARY IN INDIA - RULE OF LAW - CORRUPTION IN PUBLIC LIFE - ANTI-CORRUPTION MEASURES - LOKPAL AND LOK AYUKTA - RIGHT TO INFORMATION - EMPOWERMENT OF WOMEN - CONSUMER PROTECTION FORUMS, HUMAN RIGHTS CHARTER; POLITICAL PARTIES AND POLITICAL SYSTEM IN INDIA; CURRENT AFFAIRS	100
9	ENVIRONMENTAL ENGINEERING AND POLLUTION CONTROL UNIT VI	CHARACTERISTICS AND COMPOSITION OF SEWAGE - PLANNING AND DESIGN OF SEWERAGE SYSTEM - SEWER APPURTENANCES - PUMPING OF SEWAGE - SEWAGE TREATMENT AND DISPOSAL - DESIGN OF STORM WATER DRAIN- PLUMBING SYSTEM IN HIGH RISE BUILDING - INDUSTRIAL WASTE TREATMENT - SOLID WASTE MANAGEMENT - AIR AND NOISE POLLUTION CONTROL - E-WASTE MANAGEMENT	50
10	GEO-TECHNICAL (SOIL MECHANICS & FOUNDATION ENGINEERING) UNIT - V	SOIL FORMATION - TYPES / CLASSIFICATION OF SOILS - FIELD IDENTIFICATION - PHYSICAL PROPERTIES OF SOIL- 3 PHASE DIAGRAM - PERMEABILITY CHARACTERISTICS - SEEPAGE - STRESS DISTRIBUTION IN SOIL - CONSOLIDATION THEORY - TERZAGHI'S 1D THEORY - SHEAR STRENGTH PARAMETERS - STABILIZATION & COMPACTION - MOHR COULOMB THEORY- DETERMINATION OF SHEAR STRENGTH	50
11	GS - AE004 HISTORY, CULTURE, HERITAGE, AND SOCIO-POLITICAL MOVEMENTS IN TAMIL NADU	HISTORY OF TAMIL SOCIETY - ARCHAEOLOGICAL DISCOVERY FOR TAMIL HISTORY - TAMIL LITERATURES - SANGAM AGE TO CONTEMPORARY TIMES - IMPORTANCE OF THIRUKKURAL - SIGNIFICANCE AS A SECULAR LITERATURE -	100

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		RELEVANCE TO EVERYDAY LIFE - IMPACT OF THIRUKKURAL ON HUMANITY - THIRUKKURAL AND UNIVERSAL VALUES - RELEVANCE TO SOCIO-POLITICOECONOMIC AFFAIRS, PHILOSOPHICAL CONTENT IN THIRUKKURAL	
12	GEO-TECHNICAL (SOIL MECHANICS & FOUNDATION ENGINEERING) UNIT - V	FOUNDATION ENGINEERING - SOIL EXPLORATION AND SOIL SAMPLING BORELOG PROFILE - FOUNDATION TYPES - SHALLOW FOUNDATION - TERZHAGI'S BEARING CAPACITY CONCEPT - BIS FORMULA - PILE FOUNDATION - STATIC AND DYNAMIC FORMULAE - PILE GROUPS - FOUNDATION SETTELEMENT - GROUND IMPROVEMENT TECHNIQUE	50
13	BUILDING MATERIALS AND CONSTRUCTION PRACTICES UNIT I	BUILDING MATERIALS INTRODUCTION - PROPERTIES AND TESTING OF ENGINEERING BUILDING MATERIALS LIKE BRICK (COMPRESSIVE STRENGTH, WATER ABSORPTION, EFFLORESCENCE, ETC.,) - STONES, M-SAND, AGGREGATES, CEMENT (TYPES, SOUNDNESS, CONSISTENCY, SETTING TIME, FINE & COARSE AGGREGATES), TIMBER, RECYCLED AND MODERN MATERIALS-GLASS, PLASTIC, FRP, CERAMIC C - CONCRETE - PROPERTIES AND TESTING - HYDRATION- MIX DESIGN-ADMIXTURES - NON DESTRUCTIVE TESTING - HIGH STRENGTH CONCRETE AND HPC - SELF-COMPACTING CONCRETE	50
14	GS - AE005 HISTORY, CULTURE, HERITAGE, AND SOCIO-POLITICAL MOVEMENTS IN TAMIL NADU	ROLE OF TAMIL NADU IN FREEDOM STRUGGLE - EARLY AGITATIONS AGAINST BRITISH RULE - ROLE OF WOMEN IN FREEDOM STRUGGLE - EVOLUTION OF 19TH AND 20TH CENTURY - SOCIO-POLITICAL MOVEMENTS IN TAMIL NADU - JUSTICE PARTY, GROWTH OF RATIONALISM - SELF RESPECT MOVEMENT, DRAVIDIAN MOVEMENT, AND PRINCIPLES UNDERLYING BOTH THESE MOVEMENTS; CONTRIBUTIONS OF THANTHAI PERIYAR AND PERARIGNAR ANNA	100
15	BUILDING MATERIALS AND CONSTRUCTION PRACTICES UNIT I	VARIOUS CONSTRUCTION EQUIPMENTS AND CONSTRUCTION PRACTICES - BUILDING BYE-LAWS AND THE DEVELOPMENT REGULATIONS PRACTICED IN TAMIL NADU - PROVISIONS FOR FIRE SAFETY AND FIRE PROTECTION, LIGHTING AND AIR CONDITIONING AND VENTILATION- ACOUSTICS AND DAMP PROOFING - THERMAL INSULATION	50

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16	ENGINEERING SURVEY UNIT II	CONVENTIONAL SURVEY METHODS - CHAIN SURVEYING- RANGING-CHAINING - TRAVERSING - TRIANGULATION - COMPASS SURVEYING TYPES-BEARING - LOCA ATTRACTION - ERRORS - MAGNETIC DIP - DECLINATION - CALCULATIONS - PLANE TABLE SURVEYING - RADIATION, INTERSECTION AND RESECTION METHODS - LEVELLING - TERMINOLOGIES - ADJUSTMENTS - METHODS OF LEVELLING - FLY AND CHECK LEVELLING PROCEDURES - RECIPROCAL & PRECISE LEVELLING - CONTOURING	50
17	GS - AE006 HISTORY, CULTURE OF INDIA AND INDIAN NATIONAL MOVEMENT	INDUS VALLEY CIVILIZATION - GUPTAS, DELHI SULTANS, MUGHALS, AND MARATHAS - AGE OF VIJAYANAGARAM AND BAHMANI KINGDOMS - SOUTH INDIAN HISTORY - NATIONAL RENAISSANCE - EARLY UPRISING AGAINST BRITISH RULE - INDIAN NATIONAL CONGRESS - EMERGENCE OF LEADERS - B.R.AMBEDKAR, BHAGAT SINGH, BHARATHIAR, V.O.CHIDAMBARANAR, JAWAHARLAL NEHRU, KAMARAJAR, MAHATMA GANDHI, MAULANA ABUL KALAM AZAD, THANTHAI PERIYAR, RAJAJI, SUBASH CHANDRA BOSE, RABINDRANATH TAGORE, AND OTHERS	100
18	ENGINEERING SURVEY UNIT II	THEODOLITE SURVEYING - HEIGHTS AND DISTANCE MEASUREMENTS - AREA AND VOLUME CALCULATIONS - PRISMOIDAL, TRAPEZOIDAL, SIMPSON'S 1/3 RULE - LONGITUDINAL AND CROSS SECTIONAL CONTOURING - TRANVERSING - ADJUSTMENTS - TACHEOMETRY SURVEYING (STADIA & TANGENTIAL TACHEOMETRY) - TRIANGULATION - TOTAL STATION (DIGITAL THEODOLITE AND EDM) & GPS - ERRORS IN GPS - REMOTE SENSING TECHNIQUES	50
19	STRUCTURAL ANALYSIS UNIT - IV	INTRODUCTION TO INDETERMINATE STRUCTURES - ANALYSIS OF PROPPED CANTILEVER, FIXED BEAMS CONTINUOUS BEAMS - FINDING SUPPORT REACTIONS - CALCULATION OF INDETERMINACY - STRUCTURAL ANALYSIS USING STIFFNESS AND FLEXIBILITY METHODS - ANALYSIS USING SLOPE DEFLECTION AND MOMENT DISTRIBUTION METHODS - MOHR'S THEOREM - ANALYSIS OF SWAY - NON SWAY PORTAL FRAMES	50

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20	GS - AE007 HISTORY, CULTURE OF INDIA AND INDIAN NATIONAL MOVEMENT	DIFFERENT MODES OF AGITATION: GROWTH OF SATYAGRAHA AND MILITANT MOVEMENTS; COMMUNALISM AND PARTITION; CHANGE AND CONTINUITY IN THE SOCIO-CULTURAL HISTORY OF INDIA - CHARACTERISTICS OF INDIAN CULTURE, UNITY IN DIVERSITY - RACE, LANGUAGE, CUSTOM; INDIA AS A SECULAR STATE, SOCIAL HARMONY; PROMINENT PERSONALITIES IN VARIOUS SPHERES - ARTS, SCIENCE, LITERATURE AND PHILOSOPHY	100
21	STRUCTURAL ANALYSIS UNIT - IV	STRUCTURAL ANALYSIS OF ARCHES AND SUSPENSION CABLES - THEORY OF COLUMNS - MOVING LOAD CALCULATIONS AND INFLUENCE LINES FOR REACTION, SHEAR AND MOMENT - ANALYSIS USING MATRIX METHOD- STABILITY OF RETAINING WALLS - PLASTIC THEORY- SEISMIC ANALYSIS OF HIGH RISE BUILDING	50
22	DESIGN OF RCC, PRESTRESSED CONCRETE AND STEEL STRUCTURES UNIT VII	RCC - DESIGN PHILOSOPHIES - WORKING STRESS METHOD - LIMIT STATE METHOD - DESIGN OF SINGLY AND DOUBLY REINFORCED SECTIONS- FLANGED SECTIONS - DESIGN OF SLABS - ONE WAY - TWO WAY SLABS - DESIGN OF COLUMNS & FOOTINGS - PRESTRESSED CONCRETE - SYSTEMS AND METHODS OF PRE STRESSING - PRESTRESSED MEMBERS UNDER FLEXURE-POST TENSIONING SLABS - DESIGN OF PRE-STRESSED MEMBERS FOR FLEXURE.	50
23	GS - AE008 GEOGRAPHY OF INDIA	LOCATION - PHYSICAL FEATURES - MONSOON, RAINFALL, WEATHER AND CLIMATE - WATER RESOURCES - RIVERS IN INDIA - SOIL, MINERALS AND NATURAL RESOURCES - FOREST AND WILDLIFE - AGRICULTURAL PATTERN; TRANSPORT - COMMUNICATION - SOCIAL GEOGRAPHY - POPULATION DENSITY AND DISTRIBUTION - RACIAL, LINGUISTIC GROUPS AND MAJOR TRIBES; NATURAL CALAMITY - DISASTER MANAGEMENT; ENVIRONMENTAL POLLUTION - REASONS AND PREVENTIVE MEASURES - CLIMATE CHANGE - GREEN ENERGY; GEOGRAPHICAL LANDMARKS; CURRENT AFFAIRS.	100

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24	DESIGN OF RCC, PRESTRESSED CONCRETE AND STEEL STRUCTURES UNIT VII	DESIGN OF TENSION AND COMPRESSION MEMBERS - DESIGN OF BOLTED AND WELDED CONNECTIONS DESIGN OF MEMBERS OF TRUSS - DESIGNS OF COLUMNS AND BASES - DESIGN OF BEAMS, PLATE GIRDERS AND GANTRY GIRDER- DESIGN OF LIQUID STORAGE STRUCTURES -ELEVATED AND UNDERGROUND- DESIGN OF RETAINING WALL	50
25	PROJECT MANAGEMENT AND ESTIMATION UNIT - X	CONSTRUCTION MANAGEMENT - CONSTRUCTION PLANNING FOR WORK TASKS, ACTIVITIES, DURATION, RESOURCES - SCHEDULING AND MONITORING - COST CONTROL, QUALITY CONTROL AND INSPECTION - NETWORK ANALYSIS -GANTT / BAR CHART - TYPES OF NETWORK AND TECHNIQUES - INTRODUCTION TO FLOATS, TYPES OF FLOATS - CALCULATIONS - CRITICAL PATH METHODS - PROGRAM EVALUATION REVIEW TECHNIQUE - (CPM &PERT) NETWORK MODELING AND TIME ANALYSIS	50
26	GS - AE009 GENERAL SCIENCE	NATURE OF UNIVERSE - GENERAL SCIENTIFIC LAWS - MECHANICS - PROPERTIES OF MATTER, FORCE, MOTION, AND ENERGY - EVERYDAY APPLICATION OF THE BASIC PRINCIPLES OF MECHANICS, ELECTRICITY AND MAGNETISM, LIGHT, SOUND, HEAT, NUCLEAR PHYSICS, LASER, ELECTRONICS, AND COMMUNICATIONS - ELEMENTS AND COMPOUNDS, ACIDS, BASES, SALTS, PETROLEUM PRODUCTS, FERTILIZERS, PESTICIDES; MAIN CONCEPTS OF LIFE SCIENCE, CLASSIFICATION OF LIVING ORGANISMS, EVOLUTION, GENETICS, PHYSIOLOGY, NUTRITION, HEALTH AND HYGIENE, HUMAN DISEASES; ENVIRONMENT AND ECOLOGY; LATEST INVENTIONS IN SCIENCE AND TECHNOLOGY; CURRENT AFFAIRS	100
27	PROJECT MANAGEMENT AND ESTIMATION UNIT - X	METHODS OF PROJECT MANAGEMENT - RESOURCES PLANNING AND RESOURCE MANAGEMENT - TYPES OF ESTIMATES - RESOURCES SCHEDULING CONSIDERATIONS - CRASHING AND TIME/COST - PREPARATION OF TECHNICAL SPECIFICATIONS AND TENDER DOCUMENTS - TYPES OF TENDERS - E-TENDER - BUILDING VALUATION TECHNIQUES - DEPRECIATION CALCULATIONS - TYPES OF CONTRACTS - LAW RELATING TO CONTRACTS AND ARBITRATION.	50

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28	URBAN AND TRANSPORTATION ENGINEERING UNIT IX	URBANIZATION TREND AND IMPACT - SLUM CLEARANCE AND SLUM IMPROVEMENT PROGRAMMES - DIFFERENT MODES OF TRANSPORT AND THEIR CHARACTERISTICS. GEOMETRIC DESIGN OF HIGHWAYS - PAVEMENT MATERIALS AND TESTING ALTERNATE PAVEMENT MATERIALS-MODIFIED BINDERS - DESIGN AND CONSTRUCTION OF BITUMINOUS AND CONCRETE ROADS - PAVEMENT DISTRESS AND EVALUATION - MAINTENANCE OF ROADS	50
29	GS - AE010 GEOGRAPHY OF INDIA	SIMPLIFICATION - PERCENTAGE - HIGHEST COMMON FACTOR (HCF) - LOWEST COMMON MULTIPLE (LCM) - RATIO AND PROPORTION - SIMPLE INTEREST - COMPOUND INTEREST - AREA - VOLUME - TIME AND WORK - LOGICAL REASONING - PUZZLES - DICE - VISUAL REASONING - ALPHA NUMERIC REASONING - NUMBER SERIES.	100
30	URBAN AND TRANSPORTATION ENGINEERING UNIT IX	RAILWAYS - COMPONENTS OF PERMANENT WAY - SIGNALLING, INTERLOCKING AND TRAIN CONTROL - DRAINAGE IN ROADS AND RAILWAYS - AIRPORT PLANNING - COMPONENTS OF AIRPORT - SITE SELECTION - RUNWAYS - PLANNING OF TERMINAL BUILDINGS HARBOURS & PORTS - LAYOUT OF A HARBOUR - DOCKS - BREAKWATERS.	50
Name	Full Mock Tests	Date	No. of Questions
Technical	TEST 1	08.07.2025	200 (each)
	TEST 2	10.07.2025	
	TEST 3	12.07.2025	
	TEST 4	14.07.2025	
GS	TEST 1	16.07.2025	100 (each)
	TEST 2	18.07.2025	