

TEST SERIES SCHEDULE

2025

TNPSC**AE****EEE**

Sl. No	Subject	Test Series Name	No. of Questions
1	ELECTRICAL CIRCUITS UNIT - I	CIRCUIT ELEMENTS - KIRCHOFF'S LAWS - MESH AND NODAL ANALYSIS - NETWORK - THEOREMS AND APPLICATIONS FOR DC AND AC CIRCUITS: THEVENIN'S THEOREM, NORTON'S THEOREM, SUPERPOSITION THEOREM, MAXIMUM POWER TRANSFER THEOREM - SINUSOIDAL STEADY STATE ANALYSIS OF RL - RC - RLC CIRCUITS - RESONANT CIRCUITS	50
2	ELECTRICAL CIRCUITS UNIT - I	NATURAL AND FORCED RESPONSE - TRANSIENT RESPONSE OF RL - RC - RLC CIRCUITS - TWO-PORT NETWORKS - THREE PHASE CIRCUITS - STAR - DELTA TRANSFORMATION - REAL AND REACTIVE POWER - POWER FACTOR	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	ELECTRIC AND MAGNETIC FIELDS UNIT - II	COULOMB'S LAW - ELECTRIC FIELD INTENSITY - ELECTRIC FLUX DENSITY - GAUSS'S LAW - DIVERGENCE - ELECTRIC FIELD AND POTENTIAL DUE TO POINT, LINE, PLANE AND SPHERICAL CHARGE DISTRIBUTIONS - EFFECT OF DIELECTRIC MEDIUM - CAPACITANCE OF SIMPLE CONFIGURATIONS - MAGNETIC CIRCUITS - MAGNETOMOTIVE FORCE - RELUCTANCE.	50

Sl. No	Subject	Test Series Name	No. of Questions
5	ELECTRIC AND MAGNETIC FIELDS UNIT - II	FARADAY'S LAWS-LENZ'S LAW - BIOT - SAVART'S LAW - AMPERE'S LAW - FLEMING'S LEFT AND RIGHT HAND RULE - LORENTZ FORCE - INDUCTANCE - SELF AND MUTUAL INDUCTANCE - DOT CONVENTION - COUPLED CIRCUITS	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	MEASUREMENTS AND INSTRUMENTATION UNIT - III	UNITS AND STANDARDS - STATIC AND DYNAMIC CHARACTERISTICS-TYPES OF ERRORS- ERROR ANALYSIS - MEASUREMENT OF CURRENT, VOLTAGE, POWER, POWER-FACTOR AND ENERGY - INDICATING INSTRUMENTS - MEASUREMENT OF RESISTANCE, INDUCTANCE, CAPACITANCE AND FREQUENCY - BRIDGE MEASUREMENTS - INSTRUMENT TRANSFORMERS-ELECTRONIC MEASURING INSTRUMENTS - MULTI METERS-TRUE RMS METER-SPECTRUM ANALYZER-POWER QUALITY ANALYSER	50
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,	100

Sl. No	Subject	Test Series Name	No. of Questions
		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	
9	MEASUREMENTS AND INSTRUMENTATION UNIT - III	RECORDING INSTRUMENTS - X - Y RECORDER - MAGNETIC RECORDERS - DIGITAL DATA RECORDER - OSCILLOSCOPES - DSO - LED AND LCD DISPLAY - TRANSDUCERS AND THEIR APPLICATIONS TO THE MEASUREMENT OF NON - ELECTRICAL QUANTITIES LIKE TEMPERATURE, PRESSURE, FLOW - RATE, DISPLACEMENT, ACCELERATION, NOISE LEVEL - DATA ACQUISITION SYSTEMS - A/D AND D/A CONVERTERS - DATA TRANSMISSION SYSTEMS - PLC - SMART METERS	50
10	CONTROL SYSTEMS UNIT - IV	MATHEMATICAL MODELLING OF PHYSICAL SYSTEMS - TRANSFER FUNCTION - BLOCK DIAGRAMS - SIGNAL FLOW GRAPHS AND THEIR REDUCTION USING MASON'S RULE. TIME DOMAIN AND FREQUENCY DOMAIN ANALYSIS OF LINEAR TIME INVARIANT (LTI) SYSTEM - ERRORS FOR DIFFERENT TYPE OF INPUTS AND STABILITY CRITERIA FOR FEEDBACK SYSTEMS	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 - RELEVANCE TO EVERYDAY LIFE - IMPACT OF THIRUKKURAL ON HUMANITY - THIRUKKURAL AND UNIVERSAL VALUES - RELEVANCE TO SOCIO-POLITICOECONOMIC AFFAIRS, PHILOSOPHICAL CONTENT IN THIRUKKURAL	100
12	CONTROL SYSTEMS UNIT - IV	STABILITY ANALYSIS USING ROUTH-HURWITZ ARRAY - NYQUIST PLOT AND BODE PLOT - ROOT LOCUS - GAIN AND PHASE MARGIN - BASIC CONCEPTS OF COMPENSATOR DESIGN - PI, PD AND PID CONTROLLERS-STATE VARIABLE FORMULATION-STATE TRANSITION MATRIX- EIGEN VALUES AND EIGEN VECTORS -	50

Sl. No	Subject	Test Series Name	No. of Questions
		FREE AND FORCED RESPONSES OF TIME INVARIANT SYSTEMS-CONTROLLABILITY AND OBSERVABILITY	
13	ELECTRICAL MACHINES UNIT - V	D.C. MACHINES - CONSTRUCTION, EXCITATION METHODS - ARMATURE REACTION AND COMMUTATION - CHARACTERISTICS AND PERFORMANCE ANALYSIS - GENERATORS AND MOTORS - STARTING ,SPEED CONTROL AND BRAKING - TESTING - LOSSES AND EFFICIENCY - TRANSFORMERS-TYPES-CONSTRUCTION AND OPERATION- TESTING - EQUIVALENT CIRCUITS - LOSSES AND EFFICIENCY-ALL DAY EFFICIENCY - REGULATION - PARALLEL OPERATION - THREE PHASE TRANSFORMERS - AUTO-TRANSFORMER. INDUCTION MACHINES - CONSTRUCTION, PRINCIPLE OF OPERATION - ROTATING MAGNETIC FIELD - PERFORMANCE, TORQUE-SPEED CHARACTERISTICS, NO-LOAD AND BLOCKED ROTOR TESTS, EQUIVALENT CIRCUIT, - STARTING ,SPEED CONTROL AND BRAKING	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	ELECTRICAL MACHINES UNIT - V	SINGLE- PHASE INDUCTION MOTORS - LINEAR INDUCTION MOTORS - HYSTERESIS MOTORS - RELUCTANCE MOTORS - SYNCHRONOUS MACHINES - CONSTRUCTION - OPERATING CHARACTERISTICS AND PERFORMANCE ANALYSIS - EFFICIENCY AND VOLTAGE REGULATION - PARALLEL OPERATION - V AND INVERTED V CURVES OF SYNCHRONOUS MOTORS - POWER FACTOR IMPROVEMENT- PERMANENT MAGNET SYNCHRONOUS MOTOR- PERMANENT MAGNET BRUSHLESS DC MOTOR - STEPPER MOTOR	50
16	POWER SYSTEMS UNIT - VI	SINGLE LINE DIAGRAM OF POWER SYSTEM-PER UNIT QUANTITIES-POWER GENERATION TYPES- HYDRO, THERMAL AND NUCLEAR STATIONS - PUMPED STORAGE PLANTS - CO GENERATION- ECONOMIC AND OPERATING FACTORS	50

Sl. No	Subject	Test Series Name	No. of Questions
		MODELLING AND PERFORMANCE CHARACTERISTICS OF POWER TRANSMISSION LINES AND CABLES- HVDC TRANSMISSION- MECHANICAL DESIGN OF TRANSMISSION LINES-SAG-INSULATORS - ZBUS AND YBUS FORMULATION - LOAD FLOW STUDIES - SHUNT AND SERIES COMPENSATION- SYMMETRICAL AND UN SYMMETRICAL FAULTS ANALYSIS - TRANSIENT AND STEADY-STATE STABILITY OF POWER SYSTEMS - EQUAL AREA CRITERION- VOLTAGE AND FREQUENCY CONTROL - POWER SYSTEM TRANSIENTS	
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	POWER SYSTEMS UNIT - VI	POWER SYSTEM PROTECTION - CIRCUIT BREAKERS - RELAYS CLASSIFICATION OF PROTECTION SCHEMES-OVERCURRENT, DISTANCE, DIFFERENTIAL AND CARRIER-EQUIPMENT PROTECTION- TRANSFORMER, GENERATOR, MOTOR, BUSBARS AND TRANSMISSION LINE - AC AND DC DISTRIBUTION- DEREGULATION-ENERGY CONSERVATION AND ENERGY AUDITING	50
19	ANALOG AND DIGITAL ELECTRONICS UNIT - VII	SEMICONDUCTOR DEVICES - PN JUNCTIONS - TRANSISTORS - FET - ZENER, PHOTO DIODES AND THEIR APPLICATIONS - RECTIFIER CIRCUITS - VOLTAGE REGULATORS - MULTIPLIERS - BIASING CIRCUITS - SMALL SIGNAL AMPLIFIERS - FREQUENCY RESPONSE - MULTISTAGE AMPLIFIERS - COUPLING METHODS - LARGE SIGNAL AMPLIFIERS - PUSH- PULL AMPLIFIERS - FEEDBACK AMPLIFIERS - OSCILLATORS	50
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	100

Sl. No	Subject	Test Series Name	No. of Questions
		- 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	
21	ANALOG AND DIGITAL ELECTRONICS UNIT - VII	OPERATIONAL AMPLIFIERS AND ITS APPLICATIONS – PRECISION RECTIFIERS – MULTIVIBRATORS – VOLTAGE CONTROLLED OSCILLATOR-TIMER. DIGITAL LOGIC GATE FAMILIES (DTL,TTL,ECL,MOS,CMOS) – LOGIC GATES – SIMPLIFICATION OF LOGIC FUNCTIONS- DESIGN OF COMBINATIONAL CIRCUITS – SEQUENTIAL LOGIC CIRCUITS-LATCH-FLIPFLOPS-COUNTERS – REGISTERS – MULTIPLEXERS AND DEMULTIPLEXERS- SCHMITT TRIGGERS-MEMORIES(ROM,PLA AND FPGA).	50
22	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
23	POWER ELECTRONICS AND DRIVES UNIT - VIII	PRINCIPLE OF OPERATION AND STATIC AND DYNAMIC BEHAVIOUR OF POWER SEMICONDUCTOR DEVICES -- POWER DIODE, DIAC, SCR, TRIAC, GTO, MOSFET AND IGBT- SINGLE AND THREE PHASE AC TO DC CONVERTERS –UNCONTROLLED AND CONTROLLED RECTIFIERS –PERFORMANCE PARAMETERS – SINGLE AND THREE PHASE AC TO AC CONVERTERS – SWITCHED MODE POWER SUPPLIES – BUCK ,BOOST AND BUCK- BOOST CONVERTER TOPOLOGIES – SWITCHING LOSSES	50
24	POWER ELECTRONICS AND DRIVES UNIT - VIII	INVERTERS-SINGLE AND THREE PHASE INVERTERS – VOLTAGE CONTROL- PULSE WIDTH MODULATION TECHNIQUES- HARMONIC ELIMINATION TECHNIQUES- UNINTERRUPTED POWER SUPPLIES –	50

Sl. No	Subject	Test Series Name	No. of Questions
		ELECTRICAL DRIVES-MOTOR LOAD DYNAMICS-LOAD TORQUE CHARACTERISTICS-SPEED CONTROL OF DC DRIVES- CONVERTER/CHOPPER FED DC MOTOR DRIVES- SPEED CONTROL OF AC DRIVES- INDUCTION MOTOR DRIVES -STATOR VOLTAGE CONTROL AND V/F CONTROL -SYNCHRONOUS MOTOR DRIVES-V/F CONTROL, SELF CONTROL, MARGIN ANGLE CONTROL AND POWER FACTOR CONTROL	
25	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
26	DIGITAL PROCESSORS AND COMMUNICATIONS UNIT - IX	ARCHITECTURE OF 8085, 8086 AND 8051 - INSTRUCTION SETS - ASSEMBLY LANGUAGE PROGRAMMING - INTERFACING FOR MEMORY AND I/O: 8255 PROGRAMMABLE PERIPHERAL INTERFACE - 8253 PROGRAMMABLE TIMER INTERFACE - 8279 PROGRAMMABLE KEYBOARD AND DISPLAY INTERFACE - 8257 DIRECT MEMORY ACCESS INTERFACE - EMBEDDED PROCESSORS (ARM AND PIC BASICS ONLY).	50
27	DIGITAL PROCESSORS AND COMMUNICATIONS UNIT - IX	CLASSIFICATION OF SIGNALS AND SYSTEMS - PROPERTIES OF DISCRETE FOURIER TRANSFORMS - FFT COMPUTATION - FIR FILTERS - IIR FILTERS: BUTTERWORTH FILTERS - CHEBYSHEV FILTERS - DIGITAL COMMUNICATION SYSTEMS: PULSE CODE MODULATION AND DEMODULATION - ADAPTIVE DELTA MODULATION - FREQUENCY DIVISION AND TIME DIVISION MULTIPLEXING - DATA COMMUNICATION NETWORK TOPOLOGIES - 7-LAYER OSI PROTOCOL-IOT CONCEPTS	50

Sl. No	Subject	Test Series Name	No. of Questions
28	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
29	RENEWABLE ENERGY SOURCES AND STORAGE DEVICES UNIT - X	RENEWABLE ENERGY - SOURCES AND FEATURES - SOLAR RADIATION SPECTRUM - RADIATION MEASUREMENT - SOLAR PHOTOVOLTAIC CELL - PRINCIPLE OF OPERATION - TYPES - MPPT - MICROHYDEL - OPERATING PRINCIPLE	50
30	RENEWABLE ENERGY SOURCES AND STORAGE DEVICES UNIT - X	WIND ENERGY - COMPONENTS - WIND POWER TURBINE TYPES - MPPT - SITE SELECTION - TYPES OF WIN - BATTERIES-TYPES AND CHARACTERISTICS - SUPER CAPACITORS.D GENERATORS - SMART GRID - ELECTRIC VEHICLES - V2G AND G2V - FUEL CELLS	50
Sl. No	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	