Online Test Series Details for GATE 2025 - 26
Branch : Electrical Engineering

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Test Name
Topic Wise Tests Total 28 tests
Subject Wise Tests (Basic Level) Total 12 tests
Subject Wise Test (Advance Level) Total 12 tests
Multiple Subjects Tests Total 14 tests
Full Length Mock GATE Total 10 tests

Topic-wise Tests

Each test carries 30 marks and 45 minutes duration.

Test consists of 10 one mark questions and 10 two marks questions.

	Topic	Subject
Test 1	**Transformer :** Single Phase & Three Phase Transformer, Auto Transformer	**Electrical Machines**
Test 2	**DC Machine :** DC Generator & Motor	
Test 3	**Synchronous Machine :** Armature Winding, Synchronous Generator & Motor, Salient Pole Machine, Parallel operation of generators, Starting of Synchronous Motors	
Test 4	**Induction Machine :** Induction Motor & Generator, Starting and Speed control of induction Machine, Single Phase Induction Motor, 3-Phase Induction Machine	
Test 5	Transformer + DC Machine	
Test 6	Synchronous + Induction Machine	

Topic		Subject
Test 1	Single phase AC to DC Converters, Three phase AC to DC Converters, Electric Drives	**Power Electronics**
Test 2	Chopper & Inverters, Sinusoidal PWM	
Test 3	Power Semiconductor, Switching Devices, AC voltage Controllers	

Topic		Subject
Test 1	Logic Gates, Boolean Algebra, K-Maps, Combinational circuits	**Digital Electronics**
Test 2	Sequential Circuits, DAC & ADC, Sample and Hold Circuit	

Topic		Subject
Test 1	Basics of Control Systems, Block Diagram & Signal Flow Graph, Time Response Analysis, Routh Stability Criterion, Root Locus Diagram	**Control Systems**
Test 2	Polar Plot & Nyquist Stability Criterion, Bode Plot, Frequency Response of Second Order System, State Space Analysis, Controllers & Compensators	

Topic		Subject
Test 1	Basic Concept of Network, Source Transformation, Power Dissipation, Star to delta Transformation, Network Theorem, Two Port Network	**Network Analysis**
Test 2	RMS & Average Value, Transient & Steady State Response, Resonance, Coupling Circuit, Power Triangle, Network Synthesis, Complex Power and Power Factor in AC Circuit, Balanced 3-Phase Circuits	

	Topic	Subject
Test 1	Property & classification of signals and systems, LTI Systems, Convolution, Continuous time Fourier transform and Laplace transform & DTFT	**Signals & Systems**
Test 2	Continuous & Discrete time Fourier Series, Z-Transform, Sampling	

Topic		Subject
Test 1	**Diode Family :** Characteristics of Diode, Diode Equivalent Circuit, Clipping Clamping & Voltage Regulator Circuits, Rectifier BJT Biasing, Low Frequency BJT Amplifier & BJT Current Mirror Circuit	**Analog Electronics**
Test 2	Operational Amplifier, MOSFET Biasing, MOSFET Amplifier, Feedback Amplifier & Oscillators	

	Topic	Subject
Test 1	Linear Algebra, Differential Equation, Limits and Series expansion, Probability, Statistics, Vector Calculus	**Engineering Mathematics**
Test 2	Differential Calculus, Integral Calculus, Mean Value Theorem, Complex Variable, Maxima and Minima	

	Topic	Subject
Test 1	Coulomb's Law, Electric Flux Density, Divergence, Faraday's Law Gauss Theorem, Electric Field & Potential due to point, Line, Plane and Spherical charge distributions, Ampere's and Biot-Savart's laws, Inductance, Dielectrics and Capacitance, Magneto-motive Force, Reluctance, Magnetic Circuit	**Electromagnetic Field**

	Topic	Subject
Test 1	Parameters and Performance of transmission line, Power factor and Voltage Control, Corona, Distribution System, Cable and Insulators, Power flow equations, Series and Shunt Compensation	**Power Systems**
Test 2	Symmetrical Faults, Symmetrical Components Unsymmetrical Faults, Load Flow Studies, Power System Stability, Circuit Faults, Power System Protection, Economic Load Dispatch (With and Without consider Transmission line losses), Bus Admittance, Gauss Seidel and Newton Raphson Load Flow Method	

Topic		Subject
Test 1	AC Bridges, Basic Instruments, Measurement of resistance and Potentiometer, Error Analysis	**Electrical & Electronics Measurement**
Test 2	Measurement of Energy and Power, CRO, Q-meter, Digital Voltmeter (DVM), Instrument Transformer	

Topic		Subject
Test 1	Quantitative Aptitude	**General Aptitude**
Test 2	Verbal Aptitude and Spatial Aptitude	

Topic-wise Tests

Each test carries 30 marks and 45 minutes duration.

Test consists of 10 one mark questions and 10 two marks questions (MSQ/MCQ/NAT).

Subjects	No. of Tests
Network Analysis	02
Control Systems	02
Engineering Mathematics	02
Signals & Systems	02
General Aptitude	02
Electrical Machines	06
Digital Electronics	02
Analog Electronics	02
Electromagnetic Field	01
Power Systems	02
Electrical & Electronics Measurement	02
Power Electronics	03

Basic Level Subject-wise Tests

Each test carries 50 marks and 90 minutes duration.

Test consists of 10 one mark questions and 20 two marks questions.

Subjects	No. of Tests
Electrical Machines	01
Power Electronics	01
Signals & Systems	01
Digital Electronics	01
Analog Electronics	01
Electromagnetic Field	01
Engineering Mathematics	01
Power Systems	01
Electrical & Electronics Measurement	01
Network Analysis	01
Control Systems	01
General Aptitude	01

Advance Level Subject-wise Tests

Each test carries 50 marks and 90 minutes duration.

Test consists of 10 one mark questions and 20 two marks questions.

Subjects	No. of Tests
Electrical Machines	01
Power Electronics	01
Signals & Systems	01
Digital Electronics	01
Analog Electronics	01
Electromagnetic Field	01
Engineering Mathematics	01
Power Systems	01
Electrical & Electronics Measurement	01
Network Analysis	01
Control Systems	01
General Aptitude	01

Combined Subjects Tests

Each test carries 50 marks and 90 minutes duration.
Test consists of 10 one mark questions and 20 two marks questions.

Subjects	No. of Tests
Machines + PSA + EMT	Moderate Level 1 Advance Level 1
Machine + PE	Moderate Level 1 Advance Level 1
PSA + PE	Moderate Level 1 Advance Level 1
Machines + PSA + PE	Moderate Level 1 Advance Level 1
Network Analysis + Control Systems	Moderate Level 1 Advance Level 1
Digital + Signals + Analog Elecx.	Moderate Level 1 Advance Level 1
Maths + Aptitude	Moderate Level 1 Advance Level 1

Full Length Mock GATE (Tentative Details)

(Each test carries 100 marks and 3 hours duration) as per GATE Pattern.

Subjects
Full Length Mock - 1
Full Length Mock - 2
Full Length Mock - 3
Full Length Mock - 4
Full Length Mock - 5
Full Length Mock - 6
Full Length Mock - 7
Full Length Mock - 8
Full Length Mock - 9
Full Length Mock - 10