GATE 2027

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TEST SERIES PACKAGES

Package	Package Content	Commencing Dates
1.	GATE 2027 OTS	1st Apr, 2026
2.	GATE 2027 OTS GATE 2026 OTS (for practice)	1st Apr, 2026
3.	ESE Pre 2027 OTS	1st Aug, 2026
4.	ESE Pre 2027 OTS + ESE Pre 2026 OTS (for practice)	1st Aug, 2026
5.	GATE 2027 OTS + ESE Pre 2027 OTS	1st Apr, 2026
6.	GATE 2027 OTS + GATE 2026 OTS + ESE Pre 2027 OTS + ESE Pre 2026 OTS	1st Apr, 2026

Note : ESE Prelims 2027 Online Test Series will be commenced from 1st Aug, 2026.

Test Structure

4 | Mock Level Tests

Full Syllabus Tests
65 Questions
100 Marks
180 Minutes

24 | Topicwise Tests

Part Syllabus Tests
17 Questions
25 Marks
45 Minutes

4 | Advanced Level Tests

Full Syllabus Tests
65 Questions
100 Marks
180 Minutes

4 | Basic Level Tests

Full Syllabus Tests
65 Questions
100 Marks
180 Minutes

12 | Single Subjectwise Tests

Part Syllabus Tests
33 Questions
50 Marks
90 Minutes

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Solid Mechanics-1:** Bending moment and shear force in statically determinate beams; Simple stress and strain relationships; Transformation of stress.	17	25	45 min	
2	**Solid Mechanics-2:** Simple bending theory, flexural and shear stresses, shear centre; Uniform torsion, buckling of column, combined and direct bending stresses.	17	25	45 min	
3	**Concrete Structures-1:** Working stress and Limit state design concepts; Design of beams, slabs.	17	25	45 min	
4	**Concrete Structures-2:** Columns; Bond and development length; Prestressed concrete beams.	17	25	45 min	
5	**Environmental Engg.-1:** Water Quality and Treatment: Basics of water quality standards-physical,chemical and biological parameters; Water quality index; Unit processes and operations; Water requirements; Water distribution system; Drinking water treatment.. Air Pollution: Types of pollutants, their sources and impacts, air pollution control, air quality standards ,Air quality index and limits.	17	25	45 min	**1-04-2026**
6	**Environmental Engg.-2 :** Waste water Quality and Treatment: Sewarage system design, quality of domestic waste water, primary and secondary treatment. Effluent discharge standards; sludge disposal; Reuse of treated sewage for different applications. Municipal Solid Wastes: Characteristics, generation, collection and transportation of solid wastes, engineered systems for solid waste management (reuse/ recycle, energy recovery, treatment and disposal).	17	25	45 min	
7	**Fluid Mechanics and Hydraulics-1:** Properties of fluids, fluid statics; Continuity, momentum and energy y equations and their applications; Potential flow, Laminar and turbulent flow; Flow in pipes, pipe networks; Concept of boundary layer and its growth; Concept of lift and drag.	17	25	45 min	
8	**Fluid Mechanics and Hydraulics-2 :** Forces on immersed bodies; Flow measurement in channels and pipes; Dimensional analysis and hydraulic similitude; Channel Hydraulics - Energy-depth relationships, specific energy, critical flow, slope profile, hydraulic jump, uniform flow and gradually varied flow.	17	25	45 min	
9	**Engineering Mathematics-1:** Linear Algebra, Calculus, Numerical Methods.	17	25	45 min	**10-04-2026**
10	**Engineering Mathematics-2:** Ordinary Differential Equations, Partial Differential Equations, Fourier Series, Probability and Statistics.	17	25	45 min	
11	**General Aptitude (Part-1):** Numerical Ability, Numerical computation, numerical estimation, and data interpretation.	17	25	45 min	
12	**General Aptitude (Part-2) :** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning, numerical reasoning, verbal deduction and spatial aptitude.	17	25	45 min	
13	**Transportation Engg. and Geomatics Engg.-1:** Transportation Infrastructure: Geometric design of highways - cross-sectional elements, sight distances, horizontal and vertical alignments; Geometric design of railway track-Speed and Cant; Concept of airport runway length, calculations and corrections; taxiway and exit taxiway design. Photogrammetry and Remote Sensing-- Scale, flying height; Basics of Remote sensing and GIS.	17	25	45 min	
14	**Transportation Engg. and Geomatics Engg.-2:** *Highway Pavements:* Highway materials-desirable properties and tests;Desirable properties of bituminous paving mixes; Design factors for flexible and rigid pavements; Design of flexible and rigid pavement using IRC codes. Traffic Engineering: Traffic studies on flow and speed, peak hour factor, accident study , statistical analysis of traffic data; Microscopic and macroscopic parameters of traffic flow, fundamental relationships;Traffic signs;signal design by Webster's method; Types of intersections ; Highway capacity. Principles of surveying; Errors and their adjustment; Maps-scale, coordinate system; Distance and angle measurement - Levelling and trigonometric levelling; Traversing and triangulation survey; Total station; Horizontal and vertical curves.	17	25	45 min	
15	**Structural Analysis-1:** Statically determinate and indeterminate structures by force/ energy methods; Method of superposition; Analysis of trusses, arches, beams, cables and frames.	17	25	45 min	**20-04-2026**
16	**Structural Analysis-2:** Displacement methods: Slope deflection and moment distribution methods; Influence lines; Stiffness and flexibility methods of structural analysis.	17	25	45 min	
17	**Geotechnical Engg.-1:** Three-phase system and phase relationships, index properties; Unified and Indian standard soil classification system; Permeability-one dimensional flow, Seepage through soils - two-dimensional flow, flow nets, uplift pressure, piping, capilarity, seepage force, Principle of effective stress and quicksand condition; Compaction of soils; One-dimensional consolidation, time rate of consolidation	17	25	45 min	
18	**Geotechnical Engg.-2:** Shear Strength, Mohr's circle ,effective and total shear strength parameters, stress-strain characterastics of clay and sand; Stress paths. Foundation Engineering: Sub-surface investigations-scope, drilling bore holes, sampling, plate load test, standard penetration and cone penetration tests; Earth pressure theories - Rankine and Coulomb; Stability of slopes - finite and infinite slopes, Bishop's method; Stress distribution in soils - Boussinesq's theories; pressure bulbs.	17	25	45 min	
19	**Geotechnical Engg.-3:** Shallow foundations - Terzaghi's and Meyerhoff's bearing capacity theories, effect of water table; Combined footing and raft foundation; Contact pressure; Settlement analysis in sands and clays; Deep foundations-dynamic and static formulae, Axial load capacity of piles in sands and clays, pile load test, pile under lateral loadings, pile group efficiency,negative skin friction.	17	25	45 min	
20	**Steel Structures-1:** Working stress and Limit state design concepts; Design of tension and compression members, Concept of plastic analysis - beams and frames.	17	25	45 min	
21	**Steel Structures-2:** Plate girders and trusses; beams and beam- columns, column bases; Connections - simple and eccentric, beam-column connections.	17	25	45 min	
22	**Hydrology :** Hydrologic cycle, precipitation, evaporation, evapo-transpiration, watershed, infiltration, unit hydrographs, hydrograph analysis, flood estimation and routing, reservoir capacity, surface run-off models, ground water hydrology - steady state well hydraulics and aquifers; Application of Darcy's law.	17	25	45 min	**30-04-2026**
23	**Irrigation:** Types of irrigation system and methods; Crop water requirements-Duty,delta,evapo-transpiration;Gravity Dams and Spillways; Lined and unlined canals , Design of weirs on permeable foundation; cross-drainage structures.	17	25	45 min	
24	**Engineering Mechanics, Construction Materials and Management:** System of forces, free-body diagrams, equilibrium equations; Internal forces in structures; Friction and its applications; Centre of mass; Free Vibrations of undamped SDOF system. Construction Materials: Structural steel - composition, material properties and behaviour; Concrete - constituents, mix design, short-term and long-term properties. Construction Management: Types of construction projects; Project planning and network analysis - PERT and CPM.;Cost estimation,	17	25	45 min	

GATE 2027
ONLINE TEST SERIES

CE

Detailed Schedule
CIVIL ENGINEERING

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Solid Mechanics	33	50	90 min	15-05-2026
26	Concrete Structures	33	50	90 min	
27	Environmental Engineering	33	50	90 min	
28	Fluid Mechanics and Hydraulics	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Transportation Engineering and Geomatics Engineering	33	50	90 min	30-05-2026
32	Structural Analysis	33	50	90 min	
33	Geotechnical Engineering	33	50	90 min	
34	Steel Structures	33	50	90 min	
35	Hydrology and Irrigation	33	50	90 min	
36	Engineering Mechanics, Construction Materials and Management	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	15-06-2026
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	30-06-2026
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Candidate has to upload GATE-2026 Admit Card to access below mentioned tests					
45	GATE Mock Test 1	65	100	180 min	30-07-2026
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Solid Mechanics-1:** Bending moment and shear force in statically determinate beams; Simple stress and strain relationships; Transformation of stress.	17	25	45 min	Active
2	**Solid Mechanics-2:** Simple bending theory, flexural and shear stresses, shear centre; Uniform torsion, buckling of column, combined and direct bending stresses.	17	25	45 min	
3	**Concrete Structures-1:** Working stress and Limit state design concepts; Design of beams, slabs.	17	25	45 min	
4	**Concrete Structures-2:** Columns; Bond and development length; Prestressed concrete beams.	17	25	45 min	
5	**Environmental Engg.-1:** Water Quality and Treatment: Basics of water quality standards-physical,chemical and biological parameters; Water quality index; Unit processes and operations; Water requirements; Water distribution system; Drinking water treatment.. Air Pollution: Types of pollutants, their sources and impacts, air pollution control, air quality standards ,Air quality index and limits.	17	25	45 min	
6	**Environmental Engg.-2 :** Waste water Quality and Treatment: Sewarage system design, quality of domestic waste water, primary and secondary treatment. Effluent discharge standards; sludge disposal; Reuse of treated sewage for different applications. Municipal Solid Wastes: Characteristics, generation, collection and transportation of solid wastes, engineered systems for solid waste management (reuse/ recycle, energy recovery, treatment and disposal).	17	25	45 min	
7	**Fluid Mechanics and Hydraulics-1:** Properties of fluids, fluid statics; Continuity, momentum and energy y equations and their applications; Potential flow, Laminar and turbulent flow; Flow in pipes, pipe networks; Concept of boundary layer and its growth; Concept of lift and drag.	17	25	45 min	Active
8	**Fluid Mechanics and Hydraulics-2 :** Forces on immersed bodies; Flow measurement in channels and pipes; Dimensional analysis and hydraulic similitude; Channel Hydraulics - Energy-depth relationships, specific energy, critical flow, slope profile, hydraulic jump, uniform flow and gradually varied flow.	17	25	45 min	
9	**Engineering Mathematics-1:** Linear Algebra, Calculus, Numerical Methods.	17	25	45 min	
10	**Engineering Mathematics-2:** Ordinary Differential Equations, Partial Differential Equations, Fourier Series, Probability and Statistics.	17	25	45 min	
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14	**Transportation Engg. and Geomatics Engg.-2:** *Highway Pavements:* Highway materials-desirable properties and tests;Desirable properties of bituminous paving mixes; Design factors for flexible and rigid pavements; Design of flexible and rigid pavement using IRC codes. Traffic Engineering: Traffic studies on flow and speed, peak hour factor, accident study , statistical analysis of traffic data; Microscopic and macroscopic parameters of traffic flow, fundamental relationships;Traffic signs;signal design by Webster's method; Types of intersections ; Highway capacity. Principles of surveying; Errors and their adjustment; Maps-scale, coordinate system; Distance and angle measurement - Levelling and trigonometric levelling; Traversing and triangulation survey; Total station; Horizontal and vertical curves.	17	25	45 min	
15	**Structural Analysis-1:** Statically determinate and indeterminate structures by force/ energy methods; Method of superposition; Analysis of trusses, arches, beams, cables and frames.	17	25	45 min	
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17	**Geotechnical Engg.-1:** Three-phase system and phase relationships, index properties; Unified and Indian standard soil classification system; Permeability-one dimensional flow, Seepage through soils - two-dimensional flow, flow nets, uplift pressure, piping, capilarity, seepage force, Principle of effective stress and quicksand condition; Compaction of soils; One-dimensional consolidation, time rate of consolidation	17	25	45 min	
18	**Geotechnical Engg.-2:** Shear Strength, Mohr's circle ,effective and total shear strength parameters, stress-strain characteristics of clay and sand; Stress paths. Foundation Engineering: Sub-surface investigations-scope, drilling bore holes, sampling, plate load test, standard penetration and cone penetration tests; Earth pressure theories - Rankine and Coulomb; Stability of slopes - finite and infinite slopes, Bishop's method; Stress distribution in soils - Boussinesq's theories; pressure bulbs.	17	25	45 min	
19	**Geotechnical Engg.-3:** Shallow foundations - Terzaghi's and Meyerhoff's bearing capacity theories, effect of water table; Combined footing and raft foundation; Contact pressure; Settlement analysis in sands and clays; Deep foundations-dynamic and static formulae, Axial load capacity of piles in sands and clays, pile load test, pile under lateral loadings, pile group efficiency,negative skin friction.	17	25	45 min	Active
20	**Steel Structures-1:** Working stress and Limit state design concepts; Design of tension and compression members, Concept of plastic analysis - beams and frames.	17	25	45 min	
21	**Steel Structures-2:** Plate girders and trusses; beams and beam- columns, column bases; Connections - simple and eccentric, beam-column connections.	17	25	45 min	
22	**Hydrology :** Hydrologic cycle, precipitation, evaporation, evapo-transpiration, watershed, infiltration, unit hydrographs, hydrograph analysis, flood estimation and routing, reservoir capacity, surface run-off models, ground water hydrology - steady state well hydraulics and aquifers; Application of Darcy's law.	17	25	45 min	
23	**Irrigation:** Types of irrigation system and methods; Crop water requirements-Duty,delta,evapo-transpiration;Gravity Dams and Spillways; Lined and unlined canals , Design of weirs on permeable foundation; cross-drainage structures.	17	25	45 min	
24	**Engineering Mechanics, Construction Materials and Management:** System of forces, free-body diagrams, equilibrium equations; Internal forces in structures; Friction and its applications; Centre of mass; Free Vibrations of undamped SDOF system. Construction Materials: Structural steel - composition, material properties and behaviour; Concrete - constituents, mix design, short-term and long-term properties. Construction Management: Types of construction projects; Project planning and network analysis - PERT and CPM.;Cost estimation,	17	25	45 min	

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Solid Mechanics	33	50	90 min	Active
26	Concrete Structures	33	50	90 min	
27	Environmental Engineering	33	50	90 min	
28	Fluid Mechanics and Hydraulics	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Transportation Engineering and Geomatics Engineering	33	50	90 min	Active
32	Structural Analysis	33	50	90 min	
33	Geotechnical Engineering	33	50	90 min	
34	Steel Structures	33	50	90 min	
35	Hydrology and Irrigation	33	50	90 min	
36	Engineering Mechanics, Construction Materials and Management	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	Active
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	Active
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Mock Tests					
45	GATE Mock Test 1	65	100	180 min	Active
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Strength of Materials-1:** Stress and strain, elastic constants, Poisson's ratio; shear force and bending moment diagrams; bending and shear stresses; concept of shear centre deflection of beams.	17	25	45 min	
2	**Strength of Materials-2:** Torsion of circular shafts; Euler's theory of columns; energy methods; thermal stresses; strain gauges and rosettes; Mohr's circle for plane stress and plane strain; thin cylinders; testing of materials with universal testing machine; testing of hardness and impact strength.	17	25	45 min	
3	**Thermodynamics-1:** Thermodynamic systems and processes; properties of pure substances, behaviour of ideal and real gases; Zeroth and first laws of thermodynamics, calculation of work and heat in various processes.	17	25	45 min	
4	**Thermodynamics-2:** Second law of thermodynamics; thermodynamic property charts and tables, availability and irreversibility; thermodynamic relations.	17	25	45 min	**1-04-2026**
5	**Fluid Mechanics & Hydraulic Machines-1:** Fluid properties; fluid statics, forces on submerged bodies, stability of floating bodies; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum, Impulse and reaction principles, velocity diagrams.	17	25	45 min	
6	**Fluid Mechanics & Hydraulic Machines-2:** Bernoulli's equation; dimensional analysis; viscous flow of incompressible fluids, boundary layer, elementary turbulent flow, flow through pipes, head losses in pipes, bends and fittings; Pelton-wheel, Francis and Kaplan turbines.	17	25	45 min	
7	**Heat Transfer-1:** Modes of heat transfer; one dimensional heat conduction, resistance concept and electrical analogy, heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charts; thermal boundary layer, dimensionless parameters in free and forced convective heat transfer, heat transfer correlations for flow over flat plates and through pipes, effect of turbulence.	17	25	45 min	
8	**Heat Transfer-2:** Heat exchanger performance, LMTD and NTU methods; radiative heat transfer, Stefan-Boltzmann law, Wien's displacement law, black and grey surfaces, view factors, radiation network analysis.	17	25	45 min	
9	**Engineering mathematics-1:** Linear Algebra, Calculus, Vector Analysis, Numerical Methods.	17	25	45 min	**10-04-2026**
10	**Engineering mathematics-2:** Differential Equations, Complex Analysis, Fourier Series, Probability and Statistics.	17	25	45 min	
11	**General Aptitude (Part-1):** Numerical Ability, Numerical computation, numerical estimation, and data interpretation.	17	25	45 min	
12	**General Aptitude (Part-2) :** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning, numerical reasoning, verbal deduction and spatial aptitude.	17	25	45 min	
13	**Casting, Forming and Joining Processes:** Different types of castings, design of patterns, moulds and cores; solidification and cooling; riser and gating design. Plastic deformation and yield criteria; fundamentals of hot and cold working processes; load estimation for bulk (forging, rolling, extrusion, drawing) and sheet (shearing, deep drawing, bending) metal forming processes; principles of powder metallurgy. Principles of welding, brazing, soldering and adhesive bonding.	17	25	45 min	
14	**Machining and Machine Tool Operations:** Mechanics of machining; basic machine tools; single and multi-point cutting tools, tool geometry and materials, tool life and wear; economics of machining; principles of non-traditional machining processes; principles of work holding, jigs and fixtures; abrasive machining processes; NC/CNC machines and CNC programming.	17	25	45 min	
15	**Metrology, Engineering Materials and CIM :** Limits, fits and tolerances; linear and angular measurements; comparators; interferometry; form and finish measurement; alignment and testing methods; tolerance analysis in manufacturing and assembly; concepts of coordinate-measuring machine (CMM); Structure and properties of engineering materials, phase diagrams, heat treatment, stress-strain diagrams for engineering materials; Basic concepts of CAD/CAM and their integration tools; additive manufacturing.	17	25	45 min	**20-04-2026**
16	**Engineering Mechanics:** Free-body diagrams and equilibrium; friction and its applications including rolling friction, belt-pulley, brakes, clutches, screw jack, wedge, vehicles, etc.; trusses and frames; virtual work; kinematics and dynamics of rigid bodies in plane motion; impulse and momentum (linear and angular) and energy formulations; Lagrange's equation.	17	25	45 min	
17	**Theory of Machines-1:** Displacement, velocity and acceleration analysis of plane mechanisms; dynamic analysis of linkages; Gears and gear trains; Free and forced vibration of single degree of freedom systems, effect of damping; vibration isolation; resonance; critical speeds of shafts.	17	25	45 min	
18	**Theory of Machines-2:** Cams, flywheels and governors; balancing of reciprocating and rotating masses; gyroscope.	17	25	45 min	
19	**I.C Engine & Power Plant:** Air and gas compressors; vapour and gas power cycles, concepts of regeneration and reheat. Air-standard Otto, Diesel and dual cycles, Basics of compressible fluid flow, steam and gas turbines.	17	25	45 min	
20	**Refrigeration & Air-Conditioning :** Vapour and gas refrigeration and heat pump cycles; properties of moist air, psychrometric chart, basic psychrometric processes.	17	25	45 min	
21	**Industrial Engineering-1:** Forecasting models, aggregate production planning, scheduling, materials requirement planning; Deterministic models; safety stock inventory control systems; Lean Manufacturing.	17	25	45 min	**30-04-2026**
22	**Industrial Engineering-2:** Linear programming, simplex method, transportation, assignment, network flow models, simple queuing models, PERT and CPM.	17	25	45 min	
23	**Machine Design-1:** Design for static and dynamic loading; failure theories; fatigue strength and the S-N diagram; brakes and clutches.	17	25	45 min	
24	**Machine Design-2:** Principles of the design of machine elements such as bolted, riveted and welded joints; shafts, gears, rolling and sliding contact bearings, springs.	17	25	45 min	

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Strength of Materials	33	50	90 min	15-05-2026
26	Thermodynamics	33	50	90 min	
27	Fluid Mechanics & Hydraulic Machines	33	50	90 min	
28	Manufacturing Engineering	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Heat Transfer	33	50	90 min	30-05-2026
32	Engineering Mechanics and Engineering Materials	33	50	90 min	
33	Theory of Machines	33	50	90 min	
34	I.C Engine, Power Plant, Refrigeration & Air-Conditioning	33	50	90 min	
35	Industrial Engineering	33	50	90 min	
36	Machine Design	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	15-06-2026
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	30-06-2026
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Candidate has to upload GATE-2026 Admit Card to access below mentioned tests					
45	GATE Mock Test 1	65	100	180 min	30-07-2026
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Strength of Materials-1:** Stress and strain, elastic constants, Poisson's ratio; Mohr's circle for plane stress and plane strain; thin cylinders; shear force and bending moment diagrams; bending and shear stresses; concept of shear centre deflection of beams.	17	25	45 min	
2	**Strength of Materials-2:** Torsion of circular shafts; Euler's theory of columns; energy methods; thermal stresses; strain gauges and rosettes; testing of materials with universal testing machine; testing of hardness and impact strength.	17	25	45 min	
3	**Thermodynamics-1:** Thermodynamic systems and processes; properties of pure substances, behaviour of ideal and real gases; Zeroth and first laws of thermodynamics, calculation of work and heat in various processes.	17	25	45 min	
4	**Thermodynamics-2:** Second law of thermodynamics; thermodynamic property charts and tables, availability and irreversibility; thermodynamic relations.	17	25	45 min	**Active**
5	**Fluid Mechanics & Hydraulic Machines-1:** Fluid properties; fluid statics, forces on submerged bodies, stability of floating bodies; control-volume analysis of mass, momentum and energy; fluid acceleration; differential equations of continuity and momentum.	17	25	45 min	
6	**Fluid Mechanics & Hydraulic Machines-2:** Bernoulli's equation; dimensional analysis; viscous flow of incompressible fluids, boundary layer, elementary turbulent flow, flow through pipes, head losses in pipes, bends and fittings; Impulse and r eaction principles, velocity diagrams, Pelton-wheel, Francis and Kaplan turbines.	17	25	45 min	
7	**Manufacturing Engineering-1:** Different types of castings, design of patterns, moulds and cores; solidification and cooling; riser and gating design. Plastic deformation and yield criteria; fundamentals of hot and cold working processes; load estimation for bulk (forging, rolling, extrusion, drawing) and sheet (shearing, deep drawing, bending) metal forming processes; principles of powder metallurgy. Principles of welding, brazing, soldering and adhesive bonding. Basic concepts of CAD/CAM and their integration tools. Additive manufacturing, NC/CNC machines and CNC programming	17	25	45 min	
8	**Manufacturing Engineering-2:** Mechanics of machining; basic machine tools; single and multi-point cutting tools, tool geometry and materials, tool life and wear; economics of machining; principles of non-traditional machining processes; principles of work holding, design of jigs and fixtures. Limits, fits and tolerances; linear and angular measurements; comparators; interferometry; form and finish measurement; alignment and testing methods; tolerance analysis in manufacturing and assembly. Concepts of coordinate measuring machine (CMM); Abrasive machining process.	17	25	45 min	**Active**
9	**Engineering mathematics-1:** Linear Algebra, Calculus, Vector Analysis, Numerical Methods.	17	25	45 min	
10	**Engineering mathematics-2:** Differential Equations, Complex Analysis, Fourier Series, Probability and Statistics.	17	25	45 min	
11	**General Aptitude (Part-1):** Numerical Ability, Numerical computation, numerical estimation, and data interpretation.	17	25	45 min	
12	**General Aptitude (Part-2) :** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning, numerical reasoning, verbal deduction and spatial aptitude.	17	25	45 min	
13	**Heat Transfer-1:** Modes of heat transfer; one dimensional heat conduction, resistance concept and electrical analogy, heat transfer through fins; unsteady heat conduction, lumped parameter system, Heisler's charts; thermal boundary layer, dimensionless parameters in free and forced convective heat transfer, heat transfer correlations for flow over flat plates and through pipes, effect of turbulence.	17	25	45 min	
14	**Heat Transfer-2:** Heat exchanger performance, LMTD and NTU methods; radiative heat transfer, Stefan-Boltzmann law, Wien's displacement law, black and grey surfaces, view factors, radiation network analysis.	17	25	45 min	
15	**Engineering Mechanics and Engineering Materials-1:** Free-body diagrams and equilibrium; trusses and frames; Friction and its applications including rolling friction, belt pulley, brakes, clutches, screw jack, wedge, vehicles etc. virtual work; Structure and properties of engineering materials, phase diagrams	17	25	45 min	**Active**
16	**Engineering Mechanics and Engineering Materials-2:** Kinematics and dynamics of particles and of rigid bodies in plane motion; impulse and momentum (linear and angular) and energy formulations, lagrange's equation; heat treatment, stress-strain diagrams for engineering materials.	17	25	45 min	
17	**Theory of Machines-1:** Displacement, velocity and acceleration analysis of plane mechanisms; dynamic analysis of linkages; Gears and gear trains; Free and forced vibration of single degree of freedom systems, effect of damping; vibration isolation; resonance; critical speeds of shafts.	17	25	45 min	
18	**Theory of Machines-2:** Cams, flywheels and governors; balancing of reciprocating and rotating masses; gyroscope.	17	25	45 min	
19	**I.C Engine & Power Plant:** Air and gas compressors; vapour and gas power cycles, concepts of regeneration and reheat. Air-standard Otto, Diesel and dual cycles, Basics of compressible fluid flow, steam and gas turbines.	17	25	45 min	
20	**Refrigeration & Air-Conditioning :** Vapour and gas refrigeration and heat pump cycles; properties of moist air, psychrometric chart, basic psychrometric processes.	17	25	45 min	
21	**Industrial Engineering-1:** Forecasting models, aggregate production planning, scheduling, materials requirement planning. Lean Manufacturing.	17	25	45 min	**Active**
22	**Industrial Engineering-2:** Deterministic models; safety stock inventory control systems; linear programming, simplex method, transportation, assignment, network flow models, simple queuing models, PERT and CPM.	17	25	45 min	
23	**Machine Design-1:** Design for static and dynamic loading; failure theories; fatigue strength and the S-N diagram.	17	25	45 min	
24	**Machine Design-2:** Principles of the design of machine elements such as bolted, riveted and welded joints; shafts, gears, rolling and sliding contact bearings, brakes and clutches, springs.	17	25	45 min	

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Strength of Materials	33	50	90 min	Active
26	Thermodynamics	33	50	90 min	
27	Fluid Mechanics & Hydraulic Machines	33	50	90 min	
28	Manufacturing Engineering	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Heat Transfer	33	50	90 min	Active
32	Engineering Mechanics and Engineering Materials	33	50	90 min	
33	Theory of Machines	33	50	90 min	
34	I.C Engine, Power Plant, Refrigeration & Air-Conditioning	33	50	90 min	
35	Industrial Engineering	33	50	90 min	
36	Machine Design	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	Active
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	Active
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Mock Tests					
45	GATE Mock Test 1	65	100	180 min	Active
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Electric Circuits (Part-1) :** Network elements: R, L,C, & M; KCL, KVL, Node and Mesh analysis, Ideal current and voltage sources; Sinusoidal steady state analysis, Complex Power and power factor in ac circuits; Thevenin's theorem, Norton's theorem, Superposition theorem, Maximum power transfer theorem, star delta transformation.	17	25	45 min	
2	**Electric Circuits (Part-2) :** Transient response of dc and ac networks, Resonance, Two port networks, balanced three phase circuits,.	17	25	45 min	
3	**Control Systems (Part-1) :** Mathematical modeling and representation of systems, Feedback principle, transfer function, Block diagrams and Signal flow graphs, Transient and Steady state analysis of linear time invariant systems, Stability analysis using Routh-Hurwitz, Root loci.	17	25	45 min	
4	**Control Systems (Part-2) :** Nyquist criteria, Bode plots, Lag, Lead and Lead Lag compensators; P, PI and PID controllers; State space model, Solution of state equation of LTI Systems.	17	25	45 min	**1-04-2026**
5	**Electrical Machines (Part-1) :** Electromechanical energy conversion principles, DC machines: separately excited, series and shunt, motoring and generating mode of operation and their characteristics, speed control of dc motors; Synchronous machines: cylindrical and salient pole machines, performance & characteristics regulation and parallel operation of generators, starting of synchronous motor, Types of losses and efficiency calculations of electric machines.	17	25	45 min	
6	**Electrical Machines (Part-2):** Single phase transformers: equivalent circuit, phasor diagram, open circuit and short circuit tests, regulation and efficiency; Three phase transformers: connections, vector groups, parallel operation; Autotransformer, Three phase induction motors: principle of operation, types, performance, torque-speed characteristics, no-load and blocked rotor tests, equivalent circuit, starting and speed control; Operating principle of single phase induction motors.	17	25	45 min	
7	**Power Systems (Part-1) :** Basic concepts of electrical power generation, ac and dc transmission concepts, Models and performance of transmission lines and cables, Series and shunt compensation, Electric field distribution and insulators, Distribution systems, Voltage and Frequency control, Power factor correction, Principles of over current, differential, directional and distance protection; Circuit breakers.	17	25	45 min	
8	**Power Systems (Part-2) :** Per unit quantities, Bus admittance matrix, Gauss Seidel and Newton-Raphson load flow methods, Symmetrical components, Symmetrical and unsymmetrical fault analysis, System stability concepts, Equal area criterion, Economic load dispatch (with and without considering transmission losses) .	17	25	45 min	
9	**Engineering Mathematics (Part-1):** Linear Algebra, Calculus, Corelation and regression analysis.	17	25	45 min	**10-04-2026**
10	**Engineering Mathematics (Part-2):** Differential Equations, Complex Analysis, Fourier Series, Probability and Statistics.	17	25	45 min	
11	**General Aptitude (Part-1):** Numerical Ability, Numerical computation, numerical estimation, and data interpretation.	17	25	45 min	
12	**General Aptitude (Part-2) :** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning, numerical reasoning, verbal deduction and spatial aptitude.	17	25	45 min	
13	**Signals & Systems (Part-1) :** Representation of continuous and discrete time signals, Shifting and scaling properties, Linear Time Invariant and Causal systems, Fourier series representation of continuous and discrete time periodic signals, RMS value, average value calculation for any general periodic waveform.	17	25	45 min	
14	**Signals & Systems (Part-2) :** Sampling theorem, Applications of Fourier Transform for continuous and discrete time signals, Laplace Transform and z-Transform.	17	25	45 min	
15	**Power Electronics (Part-1) :** Static V-I Characteristics and firing/gating circuits of Thyristor, MOSFET, IGBT; Single and three phase configuration of uncontrolled rectifiers, voltage and current commutated thyristor based converters, Bidirectional ac to dc voltage source converters, Magnitude and phase of line current harmonics for uncontrolled and thyristor based converters, Power factor, Distortion factor of ac to dc converters.	17	25	45 min	**20-04-2026**
16	**Power Electronics (Part-2) :** DC to DC conversion: Buck, Boost and Buck-Boost converters; Single phase and three phase voltage and current source inverters, Sinusoidal pulse width modulation.	17	25	45 min	
17	**Electrical & Electronics Measurements (Part-1) :** Topic: Measurement of voltage, current, power, energy and power factor; Error analysis.	17	25	45 min	
18	**Electrical & Electronics Measurements (Part-2) :** Bridges and Potentiometers, Instrument transformers, Digital voltmeters and multimeters, Phase, Time and Frequency measurement; Oscilloscopes.	17	25	45 min	
19	**Digital Electronics (Part-1):** Combinational circuits, Multiplexers, Demultiplexers.	17	25	45 min	
20	**Digital Electronics (Part-2):** Sample and hold circuits, A/D and D/A converters, sequential logic circuits	17	25	45 min	
21	**Analog Electronics (Part-1) :** Simple diode circuits: clipping, clamping, rectifiers; Amplifiers: Biasing, Equivalent circuit and Frequency response.	17	25	45 min	
22	**Analog Electronics (Part-2) :** Oscillators and Feedback amplifiers; Operational amplifiers: Characteristics and applications; Single stage active filters, Sallen-key, Butterworth filters, VCOs and Timers, Schmitt trigger	17	25	45 min	**30-04-2026**
23	**Electromagnetic Fields (Part-1):** 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.	17	25	45 min	
24	**Electromagnetic Fields (Part-2) :** Biot Savart's law, Ampere's law, Curl, Faraday's law, Lorentz force, Inductance, Magnetomotive force, Reluctance, Magnetic circuits, Self and Mutual inductance of simple configurations.	17	25	45 min	

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Electric Circuits	33	50	90 min	15-05-2026
26	Control Systems	33	50	90 min	
27	Electrical Machines	33	50	90 min	
28	Power Systems	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Signals & Systems	33	50	90 min	30-05-2026
32	Power Electronics	33	50	90 min	
33	Electrical & Electronics Measurements	33	50	90 min	
34	Digital Electronics	33	50	90 min	
35	Analog Electronics	33	50	90 min	
36	Electromagnetic Fields	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	15-06-2026
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	30-06-2026
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Candidate has to upload GATE-2026 Admit Card to access below mentioned tests					
45	GATE Mock Test 1	65	100	180 min	30-07-2026
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Electric Circuits (Part-1) :** Network elements: R, L,C, & M; KCL, KVL, Node and Mesh analysis, Ideal current and voltage sources; Sinusoidal steady state analysis, Complex Power and power factor in ac circuits; Thevenin's theorem, Norton's theorem, Superposition theorem, Maximum power transfer theorem, star delta transformation.	17	25	45 min	
2	**Electric Circuits (Part-2) :** Transient response of dc and ac networks, Resonance, Two port networks, balanced three phase circuits,.	17	25	45 min	
3	**Control Systems (Part-1) :** Mathematical modeling and representation of systems, Feedback principle, transfer function, Block diagrams and Signal flow graphs, Transient and Steady state analysis of linear time invariant systems, Stability analysis using Routh-Hurwitz, Root loci.	17	25	45 min	
4	**Control Systems (Part-2) :** Nyquist criteria, Bode plots, Lag, Lead and Lead Lag compensators; P, PI and PID controllers; State space model, Solution of state equation of LTI Systems.	17	25	45 min	**Active**
5	**Electrical Machines (Part-1) :** Electromechanical energy conversion principles, DC machines: separately excited, series and shunt, motoring and generating mode of operation and their characteristics, speed control of dc motors; Synchronous machines: cylindrical and salient pole machines, performance & characteristics regulation and parallel operation of generators, starting of synchronous motor, Types of losses and efficiency calculations of electric machines.	17	25	45 min	
6	**Electrical Machines (Part-2):** Single phase transformers: equivalent circuit, phasor diagram, open circuit and short circuit tests, regulation and efficiency; Three phase transformers: connections, vector groups, parallel operation; Autotransformer, Three phase induction motors: principle of operation, types, performance, torque-speed characteristics, no-load and blocked rotor tests, equivalent circuit, starting and speed control; Operating principle of single phase induction motors.	17	25	45 min	
7	**Power Systems (Part-1) :** Basic concepts of electrical power generation, ac and dc transmission concepts, Models and performance of transmission lines and cables, Series and shunt compensation, Electric field distribution and insulators, Distribution systems, Voltage and Frequency control, Power factor correction, Principles of over current, differential, directional and distance protection; Circuit breakers.	17	25	45 min	
8	**Power Systems (Part-2) :** Per unit quantities, Bus admittance matrix, Gauss Seidel and Newton-Raphson load flow methods, Symmetrical components, Symmetrical and unsymmetrical fault analysis, System stability concepts, Equal area criterion, Economic load dispatch (with and without considering transmission losses) .	17	25	45 min	**Active**
9	**Engineering Mathematics (Part-1):** Linear Algebra, Calculus, Corelation and regression analysis.	17	25	45 min	
10	**Engineering Mathematics (Part-2):** Differential Equations, Complex Analysis, Fourier Series, Probability and Statistics.	17	25	45 min	
11	**General Aptitude (Part-1):** Numerical Ability, Numerical computation, numerical estimation, and data interpretation.	17	25	45 min	
12	**General Aptitude (Part-2) :** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning, numerical reasoning, verbal deduction and spatial aptitude.	17	25	45 min	
13	**Signals & Systems (Part-1) :** Representation of continuous and discrete time signals, Shifting and scaling properties, Linear Time Invariant and Causal systems, Fourier series representation of continuous and discrete time periodic signals, RMS value, average value calculation for any general periodic waveform.	17	25	45 min	
14	**Signals & Systems (Part-2) :** Sampling theorem, Applications of Fourier Transform for continuous and discrete time signals, Laplace Transform and z-Transform.	17	25	45 min	
15	**Power Electronics (Part-1) :** Static V-I Characteristics and firing/gating circuits of Thyristor, MOSFET, IGBT; Single and three phase configuration of uncontrolled rectifiers, voltage and current commutated thyristor based converters, Bidirectional ac to dc voltage source converters, Magnitude and phase of line current harmonics for uncontrolled and thyristor based converters, Power factor, Distortion factor of ac to dc converters.	17	25	45 min	**Active**
16	**Power Electronics (Part-2) :** DC to DC conversion: Buck, Boost and Buck-Boost converters; Single phase and three phase voltage and current source inverters, Sinusoidal pulse width modulation.	17	25	45 min	
17	**Electrical & Electronics Measurements (Part-1) :** Topic: Measurement of voltage, current, power, energy and power factor; Error analysis.	17	25	45 min	
18	**Electrical & Electronics Measurements (Part-2) :** Bridges and Potentiometers, Instrument transformers, Digital voltmeters and multimeters, Phase, Time and Frequency measurement; Oscilloscopes.	17	25	45 min	
19	**Digital Electronics (Part-1):** Combinational circuits, Multiplexers, Demultiplexers.	17	25	45 min	
20	**Digital Electronics (Part-2):** Sample and hold circuits, A/D and D/A converters, sequential logic circuits	17	25	45 min	
21	**Analog Electronics (Part-1) :** Simple diode circuits: clipping, clamping, rectifiers; Amplifiers: Biasing, Equivalent circuit and Frequency response.	17	25	45 min	
22	**Analog Electronics (Part-2) :** Oscillators and Feedback amplifiers; Operational amplifiers: Characteristics and applications; Single stage active filters, Sallen-key, Butterworth filters, VCOs and Timers, Schmitt trigger	17	25	45 min	**Active**
23	**Electromagnetic Fields (Part-1):** 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.	17	25	45 min	
24	**Electromagnetic Fields (Part-2) :** Biot Savart's law, Ampere's law, Curl, Faraday's law, Lorentz force, Inductance, Magnetomotive force, Reluctance, Magnetic circuits, Self and Mutual inductance of simple configurations.	17	25	45 min	

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Electric Circuits	33	50	90 min	Active
26	Control Systems	33	50	90 min	
27	Electrical Machines	33	50	90 min	
28	Power Systems	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Signals & Systems	33	50	90 min	Active
32	Power Electronics	33	50	90 min	
33	Electrical & Electronics Measurements	33	50	90 min	
34	Digital Electronics	33	50	90 min	
35	Analog Electronics	33	50	90 min	
36	Electromagnetic Fields	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	Active
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	Active
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Mock Tests					
45	GATE Mock Test 1	65	100	180 min	Active
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Network -1:** Circuits analysis methods: nodal and mesh analysis; Wye-Delta transformation; Network theorems: reciprocity; superposition, Thevenin and Norton's; sinusoidal Steady state analysis phasor,complex phasors,complex power, maximum power transfer.	17	25	45 min	1-04-2026
2	**Network-2:** Time and frequency domain analysis of linear circuitsRL,RC,RLC circuit; Solution of network equations using Laplace transform; Linear 2-port network parameters;wye-delta transformation.	17	25	45 min	
3	**Control-1:** Basic control system components; Feedback principle; Transfer function; Block diagram representation; Signal flow graph; Transient and steady-state analysis of LTI systems; Routh-Hurwitz, root-locus plots.	17	25	45 min	
4	**Control-2:** Frequency response; Nyquist stability criteria; Bode plots; Lag, lead and lag-lead compensation; State variable model and solution of state equation of LTI systems.	17	25	45 min	
5	**Electronic devices -1:** Energy bands in intrinsic and extrinsic semiconductors, equilibrium carrier concentration, direct and indirect band-gap semiconductors. Carrier transport: diffusion current, drift current, mobility and resistivity, generation and recombination of carriers, Poisson and continuity equations. P-N junction, Zener diode.	17	25	45 min	
6	**Electronic Devices-2:** BJT, MOS capacitor, MOSFET, LED, photo diode and solar cell.	17	25	45 min	10-04-2026
7	**Signals and Systems-1:** Continuous-time signals: Fourier series and Fourier transform representations, sampling theorem and applications. Continuous LTI systems: definition and properties, causality, stability, impulse response, convolution, poles and zeros, frequency response, group delay, phase delay.	17	25	45 min	
8	**Signal and Systems-2:** Discrete-time signals: DTFT, DFT, z-transform, discrete-time processing of continuous-time signals. Discrete LTI systems: definition and properties, causality, stability, impulse response, convolution, poles and zeroes.	17	25	45 min	
9	**Engineering Mathematics-1:** Linear Algebra, Calculus, Vector Analysis.	17	25	45 min	
10	**Engineering Mathematics-2:** Differential Equations, Complex Analysis, Probability and Statistics.	17	25	45 min	
11	**General Aptitude (Part-1):** Numerical Ability, Numerical computation, numerical estimation, and data interpretation.	17	25	45 min	
12	**General Aptitude (Part-2) :** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning, numerical reasoning, verbal deduction and spatial aptitude.	17	25	45 min	
13	**Analog circuit-1:** Diode circuits: clipping, clamping and rectifiers. BJT and MOSFET amplifier biasing	17	25	45 min	20-04-2026
14	**Analog circuit-2:** BJT and MOSFET : ac coupling, small signal analysis, frequency response. Current mirrors and differential amplifiers.	17	25	45 min	
15	**Analog circuit-3:** Op-amp circuits: Amplifiers, summers, differentiators, integrators, active filters, Schmitt triggers and oscillator	17	25	45 min	
16	**COA:** Semiconductor memories: ROM, SRAM, DRAM. Computer organization: Machine instructions and addressing modes, ALU, data-path and control unit, instruction pipelining.	17	25	45 min	
17	**Digital circuits-1:** Number representations: binary, integer and floating-point- numbers. Combinatorial circuits: Boolean algebra, minimization of functions using Boolean identities and Karnaugh map, logic gates and their static CMOS implementations, arithmetic circuits, code converters, multiplexers, decoders.	17	25	45 min	
18	**Digital circuits-2:** Sequential circuits: latches and flip-flops, counters, shift-registers, finite state machines, propagation delay, setup and hold time, critical path delay. Data converters: sample and hold circuits, ADCs and DACs.	17	25	45 min	
19	**Communications-1:** Analog communications: amplitude modulation and demodulation, angle modulation and demodulation, spectra of AM and FM, superheterodyne receivers..	17	25	45 min	30-04-2026
20	**Communications-2:** Random processes: autocorrelation and power spectral density, properties of white noise, filtering of random signals through LTI systems. Information theory: entropy, mutual information and channel capacity theorem.	17	25	45 min	
21	**Communications-3:** Digital communications: PCM, DPCM, digital modulation schemes (ASK, PSK, FSK, QAM), bandwidth, inter-symbol interference, MAP, ML detection, matched filter receiver, SNR and BER. Fundamentals of error correction, Hamming codes, CRC.	17	25	45 min	
22	**Electromagnetics-1:** Maxwell's equations: differential and integral forms and their interpretation, boundary conditions, wave equation, Poynting vector	17	25	45 min	
23	**Electromagnetics-2:** Plane waves and properties: reflection and refraction, polarization, phase and group velocity, propagation through various media, skin depth. Rectangular and circular waveguides.	17	25	45 min	
24	**Electromagnetics-3:** Transmission lines: equations, characteristic impedance, impedance matching, impedance transformation, S-parameters, Smith chart., light propagation in optical fibers, dipole and monopole antennas, linear antenna arrays.	17	25	45 min	

GATE 2027
ONLINE TEST SERIES

EC

Detailed Schedule

ELECTRONICS ENGINEERING

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Networks	33	50	90 min	15-05-2026
26	Control Systems	33	50	90 min	
27	Electronic Devices	33	50	90 min	
28	Signals and Systems	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Analog Circuits	33	50	90 min	30-05-2026
32	Analog Communication Systems	33	50	90 min	
33	Digital Communication Systems	33	50	90 min	
34	Digital Circuits	33	50	90 min	
35	Electromagnetics	33	50	90 min	
36	COA	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	15-06-2026
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	30-06-2026
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Candidate has to upload GATE-2026 Admit Card to access below mentioned tests					
45	GATE Mock Test 1	65	100	180 min	30-07-2026
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Network -1:** Circuits analysis methods: nodal and mesh analysis; Wye-Delta transformation; Network theorems: reciprocity; superposition, Thevenin and Norton's; sinusoidal Steady state analysis phasor,complex phasors,complex power, maximum power transfer.	17	25	45 min	
2	**Network-2:** Time and frequency domain analysis of linear circuitsRL,RC,RLC circuit; Solution of network equations using Laplace transform; Linear 2-port network parameters;wye-delta transformation.	17	25	45 min	
3	**Control-1:** Basic control system components; Feedback principle; Transfer function; Block diagram representation; Signal flow graph; Transient and steady-state analysis of LTI systems; Routh-Hurwitz, root-locus plots.	17	25	45 min	**Active**
4	**Control-2:** Frequency response; Nyquist stability criteria; Bode plots; Lag, lead and lag-lead compensation; State variable model and solution of state equation of LTI systems.	17	25	45 min	
5	**Electronic devices -1:** Energy bands in intrinsic and extrinsic semiconductors, equilibrium carrier concentration, direct and indirect band-gap semiconductors. Carrier transport: diffusion current, drift current, mobility and resistivity, generation and recombination of carriers, Poisson and continuity equations. P-N junction, Zener diode.	17	25	45 min	
6	**Electronic Devices-2:** BJT, MOS capacitor, MOSFET, LED, photo diode and solar cell.	17	25	45 min	
7	**Signals and Systems-1:** Continuous-time signals: Fourier series and Fourier transform representations, sampling theorem and applications. Continuous LTI systems: definition and properties, causality, stability, impulse response, convolution, poles and zeros, frequency response, group delay, phase delay.	**17**	**25**	**45 min**	
8	**Signal and Systems-2:** Discrete-time signals: DTFT, DFT, z-transform, discrete-time processing of continuous-time signals. Discrete LTI systems: definition and properties, causality, stability, impulse response, convolution, poles and zeroes.	17	25	45 min	
9	**Engineering Mathematics-1:** Linear Algebra, Calculus, Vector Analysis.	17	25	45 min	**Active**
10	**Engineering Mathematics-2:** Differential Equations, Complex Analysis, Probability and Statistics.	17	25	45 min	
11	**General Aptitude (Part-1):** Numerical Ability, Numerical computation, numerical estimation, and data interpretation.	17	25	45 min	
12	**General Aptitude (Part-2) :** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning, numerical reasoning, verbal deduction and spatial aptitude.	17	25	45 min	
13	**Analog circuit-1:** Diode circuits: clipping, clamping and rectifiers. BJT and MOSFET amplifier biasing	17	25	45 min	
14	**Analog circuit-2:** BJT and MOSFET : ac coupling, small signal analysis, frequency response. Current mirrors and differential amplifiers.	17	25	45 min	
15	**Analog circuit-3:** Op-amp circuits: Amplifiers, summers, differentiators, integrators, active filters, Schmitt triggers and oscillator	17	25	45 min	
16	**COA:** Semiconductor memories: ROM, SRAM, DRAM. Computer organization: Machine instructions and addressing modes, ALU, data-path and control unit, instruction pipelining.	17	25	45 min	**Active**
17	**Digital circuits-1:** Number representations: binary, integer and floating-point- numbers. Combinatorial circuits: Boolean algebra, minimization of functions using Boolean identities and Karnaugh map, logic gates and their static CMOS implementations, arithmetic circuits, code converters, multiplexers, decoders.	17	25	45 min	
18	**Digital circuits-2:** Sequential circuits: latches and flip-flops, counters, shift-registers, finite state machines, propagation delay, setup and hold time, critical path delay. Data converters: sample and hold circuits, ADCs and DACs.	17	25	45 min	
19	**Communications-1:** Analog communications: amplitude modulation and demodulation, angle modulation and demodulation, spectra of AM and FM, superheterodyne receivers..	17	25	45 min	
20	**Communications-2:** Random processes: autocorrelation and power spectral density, properties of white noise, filtering of random signals through LTI systems. Information theory: entropy, mutual information and channel capacity theorem.	17	25	45 min	
21	**Communications-3:** Digital communications: PCM, DPCM, digital modulation schemes (ASK, PSK, FSK, QAM), bandwidth, inter-symbol interference, MAP, ML detection, matched filter receiver, SNR and BER. Fundamentals of error correction, Hamming codes, CRC.	17	25	45 min	
22	**Electromagnetics-1:** Maxwell's equations: differential and integral forms and their interpretation, boundary conditions, wave equation, Poynting vector	17	25	45 min	**Active**
23	**Electromagnetics-2:** Plane waves and properties: reflection and refraction, polarization, phase and group velocity, propagation through various media, skin depth. Rectangular and circular waveguides.	17	25	45 min	
24	**Electromagnetics-3:** Transmission lines: equations, characteristic impedance, impedance matching, impedance transformation, S-parameters, Smith chart., light propagation in optical fibers, dipole and monopole antennas, linear antenna arrays.	17	25	45 min	

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Networks	33	50	90 min	Active
26	Control Systems	33	50	90 min	
27	Electronic Devices	33	50	90 min	
28	Signals and Systems	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Analog Circuits	33	50	90 min	Active
32	Analog Communication Systems	33	50	90 min	
33	Digital Communication Systems	33	50	90 min	
34	Digital Circuits	33	50	90 min	
35	Electromagnetics	33	50	90 min	
36	COA	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	Active
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	Active
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Mock Tests					
45	GATE Mock Test 1	65	100	180 min	Active
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Theory of Computation-1:** Regular expressions and finite automata, Context-free grammars and push-down automata	17	25	45 min	1-04-2026
2	**Theory of Computation-2:** Regular and context-free languages, Grammar, pumping lemma, Turing machines and undecidability.	17	25	45 min	
3	**Algorithms -1:** Sorting, Asymptotic worst case time and space complexity. Algorithm design techniques: divide-and-conquer and Searching.	17	25	45 min	
4	**Algorithms-2:** Binary heaps and graphs, Graph search, Greedy techniques, minimum spanning trees, shortest paths & dynamic programming.	17	25	45 min	
5	**Computer Organization and Architecture-1:** Instruction pipelining, Machine instructions and addressing modes and control unit.	17	25	45 min	
6	**Computer Organization and Architecture-2:** ALU, data-path, Memory hierarchy: cache, main memory, secondary storage and I/O interface (interrupt and DMA mode).	17	25	45 min	
7	**Databases-1:** RDBMs rules, Integrity constraints & Er-model, Normalization, File organization & indexing (e.g., B and B+ trees).	17	25	45 min	10-04-2026
8	**Databases-2:** Queries : Relational algebra Tuple calculus and SQL, Transactions and concurrency control.	17	25	45 min	
9	**Engineering Mathematics-1:** Matrices, system of linear equations, eigenvalues and eigenvectors, Random variables. Uniform, normal, exponential, poisson and binomial distributions. Mean, median, mode and standard deviation.	17	25	45 min	
10	**Engineering Mathematics-2:** Limits, continuity and differentiability. Maxima and minima. Mean value theorem. Integration, determinants and LU decomposition, Conditional probability and Bayes theorem.	17	25	45 min	
11	**General Aptitude-1:** Numerical Ability: Numerical computation, numerical estimation, numerical reasoning and data interpretation.	17	25	45 min	
12	**General Aptitude-2:** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction.	17	25	45 min	
13	**Operating System-1:** Memory management, virtual memory and Deadlock and File systems.	17	25	45 min	20-04-2026
14	**Operating System-2:** Processes, threads, inter-process communication, concurrency, synchronization and CPU scheduling.	17	25	45 min	
15	**Programming and Data Structures-1:** Programming in C, Arrays, stacks and queues, Recursion.	17	25	45 min	
16	**Programming and Data Structures-2:** Hashing, Linked lists, trees, binary search trees.	17	25	45 min	
17	**Computer Networks-1:** Concept of layering, LAN technologies and Ethernet bridging along with MAC protocols, Flow and error control techniques, switching, application layer protocols (DNS, SMTP, POP, FTP, HTTP, Email).	17	25	45 min	
18	**Computer Networks-2:** IPv4, routers and routing algorithms (distance vector, link state). TCP/UDP and sockets, congestion control, network layer protocol headers like ARP, DHCP, ICMP.	17	25	45 min	
19	**Digital Logic-1:** Boolean algebra, Combinational and Minimization	17	25	45 min	30-04-2026
20	**Digital Logic-2:** Sequential circuits, Number representations and computer arithmetic (fixed and floating point).	17	25	45 min	
21	**Discrete Mathematics-1:** Propositional and first order logic. Sets, relations, functions and counting	17	25	45 min	
22	**Discrete Mathematics-2:** Partial orders and lattices, groups, Graphs: connectivity, matching, coloring. Recurrence relations and generating functions.	17	25	45 min	
23	**Compiler Design-1:** Lexical analysis, syntax-directed translation and Intermediate code generation.	17	25	45 min	
24	**Compiler Design-2:** Parsing, Runtime environments, local optimization. Data flow analysis: constant propagation, liveness analysis, common sub-expression elimination	17	25	45 min	

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Theory of Computation	33	50	90 min	15-05-2026
26	Algorithms	33	50	90 min	
27	Computer Organization and Architecture	33	50	90 min	
28	Operating System	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Database	33	50	90 min	30-05-2026
32	Programming and Data Structures	33	50	90 min	
33	Computer Networks	33	50	90 min	
34	Digital Logic	33	50	90 min	
35	Compiler Design	33	50	90 min	
36	Discrete Mathematics	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	15-06-2026
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	30-06-2026
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Candidate has to upload GATE-2026 Admit Card to access below mentioned tests					
45	GATE Mock Test 1	65	100	180 min	30-07-2026
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Theory of Computation-1:** Regular expressions and finite automata, Context-free grammars and push-down automata	17	25	45 min	Active
2	**Theory of Computation-2:** Regular and context-free languages, Grammar, pumping lemma, Turing machines and undecidability.	17	25	45 min	
3	**Algorithms -1:** Sorting, Asymptotic worst case time and space complexity. Algorithm design techniques: greedy and divide-and-conquer and Searching.	17	25	45 min	
4	**Algorithms-2:** Hashing, Graph search, minimum spanning trees, shortest paths and dynamic programming.	17	25	45 min	
5	**Computer Organization and Architecture-1:** Instruction pipelining, Machine instructions and addressing modes and control unit.	17	25	45 min	
6	**Computer Organization and Architecture-2:** ALU, data-path, Memory hierarchy: cache, main memory, secondary storage and I/O interface (interrupt and DMA mode).	17	25	45 min	
7	**Databases-1:** Er-model. Relational model: relational algebra normalization and indexing (e.g., B and B+ trees).	17	25	45 min	Active
8	**Databases-2:** Tuple calculus, SQL, Integrity constraints, File organization, Transactions and concurrency control.	17	25	45 min	
9	**Engineering Mathematics-1:** Matrices, system of linear equations, eigenvalues and eigenvectors, Random variables. Uniform, normal, exponential, poisson and binomial distributions. Mean, median, mode and standard deviation.	17	25	45 min	
10	**Engineering Mathematics-2:** Limits, continuity and differentiability. Maxima and minima. Mean value theorem. Integration, determinants and LU decomposition, Conditional probability and Bayes theorem.	17	25	45 min	
11	**General Aptitude-1:** Numerical Ability: Numerical computation, numerical estimation, numerical reasoning and data interpretation.	17	25	45 min	
12	**General Aptitude-2:** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction.	17	25	45 min	
13	**Operating System-1:** Memory management, virtual memory and Deadlock and File systems.	17	25	45 min	Active
14	**Operating System-2:** Processes, threads, inter-process communication, concurrency, synchronization and CPU scheduling.	17	25	45 min	
15	**Programming and Data Structures-1:** Programming in C, Arrays, stacks and queues, Recursion.	17	25	45 min	
16	**Programming and Data Structures-2:** Linked lists, trees, binary search trees, binary heaps and graphs	17	25	45 min	
17	**Computer Networks-1:** Concept of layering, LAN technologies and Ethernet bridging along with MAC protocols, Flow and error control techniques, switching, application layer protocols (DNS, SMTP, POP, FTP, HTTP, Email).	17	25	45 min	
18	**Computer Networks-2:** IPv4, routers and routing algorithms (distance vector, link state). TCP/UDP and sockets, congestion control, network layer protocol headers like ARP, DHCP, ICMP.	17	25	45 min	
19	**Digital Logic-1:** Boolean algebra, Combinational and Minimization	17	25	45 min	Active
20	**Digital Logic-2:** Sequential circuits, Number representations and computer arithmetic (fixed and floating point).	17	25	45 min	
21	**Discrete Mathematics-1:** Propositional and first order logic. Sets, relations, functions and counting	17	25	45 min	
22	**Discrete Mathematics-2:** Partial orders and lattices, groups, Graphs: connectivity, matching, coloring. Recurrence relations and generating functions.	17	25	45 min	
23	**Compiler Design-1:** Lexical analysis, syntax-directed translation and Intermediate code generation.	17	25	45 min	
24	**Compiler Design-2:** Parsing, Runtime environments, local optimization. Data flow analysis: constant propagation, liveness analysis, common sub-expression elimination	17	25	45 min	

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Theory of Computation	33	50	90 min	Active
26	Algorithms	33	50	90 min	
27	Computer Organization and Architecture	33	50	90 min	
28	Operating System	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Database	33	50	90 min	Active
32	Programming and Data Structures	33	50	90 min	
33	Computer Networks	33	50	90 min	
34	Digital Logic	33	50	90 min	
35	Compiler Design	33	50	90 min	
36	Discrete Mathematics	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	Active
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	Active
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Mock Tests					
45	GATE Mock Test 1	65	100	180 min	Active
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Electrical Circuits-1:** Voltage and current sources: independent, dependent, ideal and practical; v-i relationships of resistor, inductor, mutual inductor and capacitor; Kirchhoff's Law, mesh nodal analysis, superposition, Thevenin, Norton, maximum power transfer and reciprocity theorems; Peak-, average - and rms value of ac quantities; apparent active-and reactive powers; phasor analysis, impedance and admittance.	17	25	45 min	
2	**Electrical Circuits-2:** Electrical Circuits-2: Transient analysis of RLC circuits with dc excitation; series and parallel resonance, locus diagram, realization of basic filters with R, Land C elements. One-port and two-port networks, driving point impedance and admittance, open-and short circuit parameters, Transient analysis of RLC circuits with ac excitation.	17	25	45 min	
3	**Electric Machines** -Single Phase Transformer: equivalent circuit, phasor diagram, open circuit and short circuit test, regulation and efficiency; Three Phase Induction Motor: principle of operation, types, performance, torque-speed characteristics, no-load and blocked rotor test, equivalent circuit, starting and speed control; Types of losses and efficiency calculations of electric machines.	17	25	45 min	**1-04-2026**
4	**Electricity and Magnetism-1:** 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	17	25	45 min	
5	**Electricity and Magnetism-2 :** Biot-Savart's law, Ampere's law, Curl, Faraday's law, Lorentz force, Inductance, Magnetomotive Force, Reluctance, Magnetic Circuits, Self and Mutual inductance of simple configurations.	17	25	45 min	
6	**Control Systems-1:** Feedback principles, signal flow graph, transient response, steady-state-errors, Routh Criteria, root loci, Bode Plot, phase and gain margin, Nyquist criteria.	17	25	45 min	
7	**Control Systems-2:** Design of lead, Lag and Lead-lag compensators, state space representation of systems; time delay systems, Mechanical, hydraulic and pneumatic system components, synchro pair, servo and stepper motors, servo valve; on-off, P, P-I, P-I-D, cascade, feedforward, and ratio controllers, Tuning of PID controllers and sizing of control valve	17	25	45 min	
8	**Sensors and Industrial Instrumentation-1:** Resistive, capacitive, inductive, piezoelectric, Hall effect sensor and associated signal conditioning circuits; transducers for industrial instrumentation: displacement (linear and angular), velocity, acceleration, force, torque, vibration, shock.	17	25	45 min	
9	**Sensors and Industrial Instrumentation-2:** Pressure (including low pressure), flow (differential pressure, variable area, electromagnetic, ultrasonic, turbine and open channel flow meter) temperature (thermocouple, bolometer, RTD (3/4 wire), thermistor, pyrometer and semiconductor); liquid level, pH, conductivity and viscosity measurement,4-20mA two wire transmitter	17	25	45 min	**10-04-2026**
10	**Engineering Mathematics-1:** Linear Algebra, calculus, Vector Analysis, Numerical Methods.	17	25	45 min	
11	**Engineering Mathematics-2:** Differential Equations, Analysis of complex variables, Probability statistics, Fourier Series.	17	25	45 min	
12	**General Aptitude (Part-1):** Numerical Ability, Numerical computation, numerical estimation, and data interpretation.	17	25	45 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
13	**General Aptitude (Part-2) :** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning, numerical reasoning, verbal deduction and spatial aptitude.	17	25	45 min	
14	**Signals and Systems-1:** Periodic, aperiodic and impulse signals; Laplace, Fourier transform, transfer function, frequency response of first and second order linear time invariant systems, impulse response, convolution, correlation.	17	25	45 min	
15	**Signals and Systems-2:** z-transforms; Discrete time system: impulse response, frequency response, pulse transfer function; DFT and FFT; basics of IIR and FIR filters.	17	25	45 min	
16	**Measurement-1:** SI units, systematic and random errors in measurement, expression of uncertainty - accuracy and precision index, propagation of errors. PMMC, MI and dynamometer type instruments; dc potentiometer, Measurement of voltage and current., voltage and current scaling.	17	25	45 min	**20-04-2026**
17	**Measurement-2:** Bridges for measurement of R, Land C, Q-meter. Measurement of Power in single and three phase circuits; ac and dc current probes; true rms meters Instrument transformers, timer/counter, time, phase and frequency measurements, digital voltmeter, digital multimeter, oscilloscope, shielding and grounding.	17	25	45 min	
18	**Communication:** Amplitude-and frequency modulation and demodulation; Shannon's sampling theorem. Pulse code modulation; frequency and time division multiplexing, amplitude-, phase, frequency, pulse shift keying for digital modulation, Quadrature amplitude modulation.	17	25	45 min	
19	**Analog Electronics-1:** Characteristics and applications of diode, Zener diode, BJT and MOSFET; small signal analysis of transistor circuits, feedback amplifiers.	17	25	45 min	
20	**Analog Electronics-2:** Characteristics of operational amplifiers; applications of op-amps: difference amplifier, adder, subtractor, integrator, differentiator, instrumentation amplifier, precision rectifier, active filters and other circuits. Oscillators, signal generators, voltage-controlled oscillators and phase locked loop, Sources and effects of noise and interference in electronic circuits.	17	25	45 min	
21	**Digital Electronics-1:** Basics of number systems, Combinational logic circuits, minimization of Boolean functions. IC families: TTL and CMOS. Arithmetic circuits, comparators, Schmitt trigger, multi-vibrators, Sequential circuits, flip flops, shift registers, timers and counters; sample-and-hold circuit, multiplexer.	17	25	45 min	
22	**Digital Electronics-2:** Analog-to digital (successive approximation, integrating, flash and sigma-delta)and digital-to analog converters (weighted R, R-2R ladder and current steering logic). Characteristics of ADC and DAC (resolution, quantization, significant bits, conversion/settling time), Embedded Systems: Microprocessor and microcontroller applications, memory and input output interfacing; basics of data acquisition systems, basics of distributed control systems (DCS) and programmable logic controllers (PLC).	17	25	45 min	**30-04-2026**
23	**Optical instrumentation-1:** Basics of fiber optic sensing, interferometer: applications in metrology.	17	25	45 min	
24	**Optical Instrumentation-2:** Optical sources and detectors: LED, laser, photo-diode, light dependent resistor and their characteristics. UV-VIS Spectro photometers, Mass spectrometer.	17	25	45 min	

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Electrical Circuits + Electrical Machines	33	50	90 min	15-05-2026
26	Control Systems + Process Control	33	50	90 min	
27	Sensors & Industrial Instrumentation	33	50	90 min	
28	Optical Instrumentation	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Signals & Systems	33	50	90 min	30-05-2026
32	Measurements	33	50	90 min	
33	Communications	33	50	90 min	
34	Digital Electronics & Microprocessors	33	50	90 min	
35	Analog Electronics	33	50	90 min	
36	Electricity and Magnetism	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	15-06-2026
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	30-06-2026
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Candidate has to upload GATE-2026 Admit Card to access below mentioned tests					
45	GATE Mock Test 1	65	100	180 min	30-07-2026
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Electrical Circuits-1:** Voltage and current sources: independent, dependent, ideal and practical; v-i relationships of resistor, inductor, mutual inductor and capacitor; Kirchhoff's Law, mesh nodal analysis, superposition, Thevenin, Norton, maximum power transfer and reciprocity theorems; Peak-, average - and rms value of ac quantities; apparent active-and reactive powers; phasor analysis, impedance and admittance.	17	25	45 min	
2	**Electrical Circuits-2:** Electrical Circuits-2: Transient analysis of RLC circuits with dc excitation; series and parallel resonance, locus diagram, realization of basic filters with R, Land C elements. One-port and two-port networks, driving point impedance and admittance, open-and short circuit parameters, Transient analysis of RLC circuits with ac excitation.	17	25	45 min	
3	**Electric Machines** -Single Phase Transformer: equivalent circuit, phasor diagram, open circuit and short circuit test, regulation and efficiency; Three Phase Induction Motor: principle of operation, types, performance, torque-speed characteristics, no-load and blocked rotor test, equivalent circuit, starting and speed control; Types of losses and efficiency calculations of electric machines.	17	25	45 min	**Active**
4	**Electricity and Magnetism-1:** 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	17	25	45 min	
5	**Electricity and Magnetism-2 :** Biot-Savart's law, Ampere's law, Curl, Faraday's law, Lorentz force, Inductance, Magnetomotive Force, Reluctance, Magnetic Circuits, Self and Mutual inductance of simple configurations.	17	25	45 min	
6	**Control Systems-1:** Feedback principles, signal flow graph, transient response, steady-state-errors, Routh Criteria, root loci, Bode Plot, phase and gain margin, Nyquist criteria.	17	25	45 min	
7	**Control Systems-2:** Design of lead, Lag and Lead-lag compensators, state space representation of systems; time delay systems, Mechanical, hydraulic and pneumatic system components, synchro pair, servo and stepper motors, servo valve; on-off, P, P-I, P-I-D, cascade, feedforward, and ratio controllers, Tuning of PID controllers and sizing of control valve	17	25	45 min	
8	**Sensors and Industrial Instrumentation-1:** Resistive, capacitive, inductive, piezoelectric, Hall effect sensor and associated signal conditioning circuits; transducers for industrial instrumentation: displacement (linear and angular), velocity, acceleration, force, torque, vibration, shock.	17	25	45 min	
9	**Sensors and Industrial Instrumentation-2:** Pressure (including low pressure), flow (differential pressure, variable area, electromagnetic, ultrasonic, turbine and open channel flow meter) temperature (thermocouple, bolometer, RTD (3/4 wire), thermistor, pyrometer and semiconductor); liquid level, pH, conductivity and viscosity measurement,4-20mA two wire transmitter	17	25	45 min	**Active**
10	**Engineering Mathematics-1:** Linear Algebra, calculus, Vector Analysis, Numerical Methods.	17	25	45 min	
11	**Engineering Mathematics-2:** Differential Equations, Analysis of complex variables, Probability statistics, Fourier Series.	17	25	45 min	
12	**General Aptitude (Part-1):** Numerical Ability, Numerical computation, numerical estimation, and data interpretation.	17	25	45 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
13	**General Aptitude (Part-2) :** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning, numerical reasoning, verbal deduction and spatial aptitude.	17	25	45 min	Active
14	**Signals and Systems-1:** Periodic, aperiodic and impulse signals; Laplace, Fourier transform, transfer function, frequency response of first and second order linear time invariant systems, impulse response, convolution, correlation.	17	25	45 min	
15	**Signals and Systems-2:** z-transforms; Discrete time system: impulse response, frequency response, pulse transfer function; DFT and FFT; basics of IIR and FIR filters.	17	25	45 min	
16	**Measurement-1:** SI units, systematic and random errors in measurement, expression of uncertainty - accuracy and precision index, propagation of errors. PMMC, MI and dynamometer type instruments; dc potentiometer, Measurement of voltage and current., voltage and current scaling.	17	25	45 min	
17	**Measurement-2:** Bridges for measurement of R, Land C, Q-meter. Measurement of Power in single and three phase circuits; ac and dc current probes; true rms meters Instrument transformers, timer/counter, time, phase and frequency measurements, digital voltmeter, digital multimeter, oscilloscope, shielding and grounding.	17	25	45 min	
18	**Communication:** Amplitude-and frequency modulation and demodulation; Shannon's sampling theorem. Pulse code modulation; frequency and time division multiplexing, amplitude-, phase, frequency, pulse shift keying for digital modulation, Quadrature amplitude modulation.	17	25	45 min	
19	**Analog Electronics-1:** Characteristics and applications of diode, Zener diode, BJT and MOSFET; small signal analysis of transistor circuits, feedback amplifiers.	17	25	45 min	Active
20	**Analog Electronics-2:** Characteristics of operational amplifiers; applications of op-amps: difference amplifier, adder, subtractor, integrator, differentiator, instrumentation amplifier, precision rectifier, active filters and other circuits. Oscillators, signal generators, voltage-controlled oscillators and phase locked loop, Sources and effects of noise and interference in electronic circuits.	17	25	45 min	
21	**Digital Electronics-1:** Basics of number systems, Combinational logic circuits, minimization of Boolean functions. IC families: TTL and CMOS. Arithmetic circuits, comparators, Schmitt trigger, multi-vibrators, Sequential circuits, flip flops, shift registers, timers and counters; sample-and-hold circuit, multiplexer.	17	25	45 min	
22	**Digital Electronics-2:** Analog-to digital (successive approximation, integrating, flash and sigma-delta)and digital-to analog converters (weighted R, R-2R ladder and current steering logic). Characteristics of ADC and DAC (resolution, quantization, significant bits, conversion/settling time), Embedded Systems: Microprocessor and microcontroller applications, memory and input output interfacing; basics of data acquisition systems, basics of distributed control systems (DCS) and programmable logic controllers (PLC).	17	25	45 min	
23	**Optical instrumentation-1:** Basics of fiber optic sensing, interferometer: applications in metrology.	17	25	45 min	
24	**Optical Instrumentation-2:** Optical sources and detectors: LED, laser, photo-diode, light dependent resistor and their characteristics. UV-VIS Spectro photometers, Mass spectrometer.	17	25	45 min	

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Electrical Circuits + Electrical Machines	33	50	90 min	Active
26	Control Systems + Process Control	33	50	90 min	
27	Sensors & Industrial Instrumentation	33	50	90 min	
28	Optical Instrumentation	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Signals & Systems	33	50	90 min	Active
32	Measurements	33	50	90 min	
33	Communications	33	50	90 min	
34	Digital Electronics & Microprocessors	33	50	90 min	
35	Analog Electronics	33	50	90 min	
36	Electricity and Magnetism	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	Active
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	Active
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Mock Tests					
45	GATE Mock Test 1	65	100	180 min	Active
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Fluid Mechanics:** Fluid statics, Bernoulli's equation, flow through pipes, laminar and turbulent flows, equations of continuity and momentum, capillary action; Dimensional analysis;	17	25	45 min	
2	**Thermodynamics:** Zeroth, first and second law of thermodynamics, thermodynamic system and processes, calculation of work and heat for systems and control volumes.	17	25	45 min	
3	**Manufacturing Process 1:** Casting: Types of casting processes and applications; Sand casting: patterns – types, materials and allowances; molds and cores–materials, making, and testing; design of gating system and riser; casting techniques of cast iron, steels, and nonferrous metals and alloys; analysis of solidification and microstructure development; Other casting techniques: Pressure die casting, Centrifugal casting, Investment casting, Shell mold casting; Casting defects and their inspection by non-destructive testing. Joining of Materials: Classification of joining processes; Principles of fusion welding processes using different heat sources (flame, arc, resistance, laser, electron beam), Heat transfer and associated losses; Arc welding processes - SMAW, GMAW, GTAW, plasma arc, submerged arc welding processes; Principles of solid state welding processes - friction welding, friction stir welding, ultrasonic welding; Welding defects - causes and inspection; Principles of adhesive joining, brazing and soldering processes.	17	25	45 min	**1-04-2026**
4	**Manufacturing Process- 2:** Metal Forming: Stress-strain relations in elastic and plastic deformation; Von Mises and Tresca yield criteria, Concept of flow stress; Hot, warm and cold working; Bulk forming processes - forging, rolling, extrusion and wire drawing; Sheet metal working processes – blanking, punching, bending, stretch forming, spinning and deep drawing; Ideal work and slab analysis; Defects in metal working and their causes.	17	25	45 min	
5	**Manufacturing Process- 3:** Machining: Orthogonal and oblique machining, Single point cutting tool and tool signature, Chip formation, cutting forces, Merchant's analysis, Specific cutting energy and power; Machining parameters and material removal rate; tool materials, Tool wear and tool life; Thermal aspects of machining, cutting fluids, machinability; Economics of machining; Machining processes - turning, taper turning, thread cutting, drilling, boring, milling, gear cutting, thread production; Finishing processes – grinding, honing, lapping and super-finishing. Machine Tools: Lathe, milling, drilling and shaping machines – construction and kinematics.	17	25	45 min	
6	**Manufacturing Process- 4:** Powder Processing: Production of metal/ceramic powders, compaction and sintering of metals and ceramic powders, Cold and hot isostatic pressing. Polymers and Composites: Polymer processing – injection, compression and blow molding, extrusion, calendaring and thermoforming; Molding of composites.	17	25	45 min	
7	**Material Science-1:** Structure, physical and mechanical properties, and applications of common engineering materials (metals and alloys, semiconductors, ceramics, polymers, and composites – metal, polymer and ceramic based)	17	25	45 min	
8	**Material Science-2:** Iron-carbon equilibrium phase diagram; Heat treatment of metals and alloys and its influence on mechanical properties; Stress-strain behavior of metals and alloys.	17	25	45 min	
9	**Engineering mathematics-1:** Linear Algebra, Calculus, Vector Analysis, Numerical Methods.	17	25	45 min	**10-04-2026**
10	**Engineering mathematics-2:** Differential Equations, Complex Analysis, Probability and Statistics.	17	25	45 min	
11	**General Aptitude (Part-1):** Numerical Ability, Numerical computation, numerical estimation, and data interpretation.	17	25	45 min	
12	**General Aptitude (Part-2) :** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning, numerical reasoning, verbal deduction and spatial aptitude.	17	25	45 min	
13	**Material Science-3:** Structure and properties of engineering materials, phase diagrams; Heat treatment, stress-strain diagrams for engineering materials.	17	25	45 min	
14	**Applied Mechanics-1:** Equivalent force systems, free body concepts, equations of equilibrium; trusses	17	25	45 min	
15	**Applied Mechanics-2:** Strength of materials – stress, strain and their relationship; Failure theories; Mohr's circle (stress); Deflection of beams, bending and shear stresses; Euler's theory of columns; Thick and thin cylinders; Torsion.	17	25	45 min	
16	**Air Standard Cycles & heat transfer:** Air standard cycles; Basic applications of conduction, convection and radiation; Dimensional analysis.	17	25	45 min	**20-04-2026**
17	**TOM & Machine Design-1:** Analysis of planar mechanisms, cams and followers; governors and flywheels	17	25	45 min	
18	**TOM & Machine Design-2:** Design of bolted, riveted and welded joints; Interference/shrink fit joints; Friction and lubrication; Design of shafts, keys, couplings, spur gears, belt drives, brakes and clutches; Pressure vessels.	17	25	45 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
19	**Manufacturing Process- 5:** Jigs and fixtures – principles, applications, and design. Metrology and Inspection: Accuracy and precision; Types of errors; Limits, fits and tolerances; Gauge design, Interchangeability, Selective assembly; Linear, angular, and form measurements (straightness, flatness, roundness, runout and cylindricity) by mechanical and optical methods; Inspection of screw threads and gears; Surface roughness measurement by contact and non-contact methods.	17	25	45 min	
20	**Manufacturing Process- 6:** Advanced Manufacturing: Principles and applications of USM, AJM, WJM, AWJM, EDM and Wire EDM, LBM, EBM, PAM, CHM, ECM; Effect of process parameters on material removal rate, surface roughness and power consumption; Additive manufacturing techniques. Computer Integrated Manufacturing: Basic concepts of CAD and CAM, Geometric modeling, CNC; Automation in Manufacturing; Industrial Robots – configurations, drives and controls; Cellular manufacturing and FMS - Group Technology, CAPP.	17	25	45 min	
21	**Industrial Engineering Operations Research and Operations Management 1** **Industrial Engineering :** **Work system design:** Taylor's scientific management, Gilbreths's contributions; Productivity – concepts and measurements; Method study, Micro-motion study, Principles of motion economy; Work measurement – time study, Work sampling, Standard data, PMTS; Ergonomics; Job evaluation and merit rating. **Operations Research and Operations Management Engineering** **Engineering Economy and Costing:** Elementary cost accounting and methods of depreciation; Break-even analysis; Techniques for evaluation of capital investments; Financial statements; Activity based costing. Inventory – functions, costs, classifications, deterministic inventory models, quantity discount; Perpetual and periodic inventory control systems.	17	25	45 min	
22	**Industrial Engineering Operations Research and Operations Management 2** **Industrial Engineering** **Product Design and Development:** Principles of product design, tolerance design; Quality and cost considerations; Product life cycle; Standardization, simplification, diversification; Value engineering and analysis; Concurrent engineering; Design for "X". **Operations Research and Operations Management** **Project Management:** Scheduling techniques – Gantt chart, CPM, PERT and GERTPERT/CPM	17	25	45 min	**30-04-2026**
23	**Operations Research and Operations Management Quality and reliability** **Operations Research and Operations Management** **Operation Research:** Linear programming – problem formulation, simplex method, duality and sensitivity analysis; Transportation and assignment models; Integer programming; Constrained and unconstrained nonlinear optimization; Markovian queuing models; Simulation – manufacturing applications. **Quality Management:** Quality – concept and costs; Statistical quality control – process capability analysis, control charts for variables and attributes and acceptance sampling; Six sigma; Total quality management; Quality assurance and certification - ISO 9000, ISO14000. **Reliability and Maintenance:** Reliability, availability and maintainability; Distribution of failure and repair times; Determination of MTBF and MTTR, Reliability models; Determination of system reliability; Preventive and predictive maintenance and replacement, Total productive maintenance.	17	25	45 min	
24	**Industrial Engineering Operations Research and Operations Management 3** **Operations Research and Operations Management** **Production control:** Forecasting techniques – causal and time series models, moving average, exponential smoothing, trend and seasonality; Aggregate production planning; Master production scheduling; MRP, MRP-II and ERP; Routing, scheduling and priority dispatching; Push and pull production systems, concepts of Lean and JIT manufacturing systems; Logistics, distribution, and supply chain management. **Industrial Engineering** **Facility Design:** Facility location factors and evaluation of alternate locations; Types of plant layout and their evaluation; Computer aided layout design techniques; Assembly line balancing; Materials handling systems.	17	25	45 min	

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Manufacturing Process-I (1+2+4)	33	50	90 min	15-05-2026
26	Fluid Mechanics	33	50	90 min	
27	Thermodynamics	33	50	90 min	
28	Applied Mechanics	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	TOM & Machine Design	33	50	90 min	30-05-2026
32	Manufacturing Process-II (3+5+6)	33	50	90 min	
33	IC Engine + Heat Transfer	33	50	90 min	
34	Material Science	33	50	90 min	
35	Industrial Engineering + Quality Management + Reliability & Maintenance	33	50	90 min	
36	Operation Research	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	15-06-2026
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	30-06-2026
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Candidate has to upload GATE-2026 Admit Card to access below mentioned tests					
45	GATE Mock Test 1	65	100	180 min	30-07-2026
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**TOM & Machine Design-1:** Analysis of planar mechanisms, cams and followers; governors and fly wheels.	17	25	45 min	Active
2	**TOM & Machine Design-2:** design of bolted, riveted and welded joints; interference/shrink fit joints; design of shafts, keys, spur gears, belt drives, brakes and clutches; pressure vessels.	17	25	45 min	
3	**Fluid Mechanics:** Fluid statics, Bernoulli's equation, flow through pipes, equations of continuity and momentum, capillary action, contact angle and wetting.	17	25	45 min	
4	**Thermodynamics:** Zeroth, first and second law of thermodynamics, thermodynamic system and processes, calculation of work and heat for systems and control volumes.	17	25	45 min	
5	**Applied Mechanics-1:** Equivalent force systems, free body concepts, equations of equilibrium; trusses.	17	25	45 min	
6	**Applied Mechanics-2:** Stress, strain and their relationship; failure theories, Mohr's circle(stress), deflection of beams, bending and shear stress, Euler's theory of columns.	17	25	45 min	
7	**Manufacturing Process 1:** Types of casting processes and applications; patterns – types and materials; allowances; moulds and cores – materials, making, and testing; casting techniques of cast iron, steels and nonferrous metals and alloys; analysis of solidification and microstructure development; design of gating and riser; origin of defects. Principles of fusion welding processes(manual metal arc, MIG, TIG, plasma arc, submerged arc welding processes)–different heat sources (flame, arc, resistive, laser, electron beam), and heat transfer and associated losses, flux application, feeding of filler rod; Principles of solid state welding processes (friction, explosive welding, ultrasonic welding processes); Principles of adhesive, brazing and soldering processes; Origins of welding defects.	17	25	45 min	
8	**Manufacturing Process- 2:** Stress-strain relations in elastic and plastic deformation; concept of flow stress; hot and cold working – forging, rolling, extrusion and wire drawing; sheet metal working processes – blanking, bending and deep drawing; ideal work and slab analysis; origin of metal working defects.	17	25	45 min	
9	**Engineering mathematics-1:** Linear Algebra, Calculus, Vector Analysis, Probability and Statistics.	17	25	45 min	
10	**Engineering mathematics-2:** Differential Equations, Complex Analysis, Numerical Methods.	17	25	45 min	
11	**General Aptitude-1:** Numerical Ability: Numerical computation, numerical estimation, numerical reasoning and data interpretation.	17	25	45 min	
12	**General Aptitude-2:** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction.	17	25	45 min	
13	**IC Engine:** Air standard cycles, Basics of internal combustion engines and steam turbines.	17	25	45 min	Active
14	**Heat Transfer:** Basic applications of conduction, convection and radiation.	17	25	45 min	
15	**Material Science-1:** Structure and properties correlation; engineering materials (metals, ceramics, polymers and composites) – properties and applications; stress-strain behavior of metals and alloys;	17	25	45 min	
16	**Material Science-2:** Iron-carbon phase diagram, heat treatment of metals and alloys, its influence on mechanical properties.	17	25	45 min	
17	**Manufacturing Process- 3:** Basic machine tools like centre lathe, milling machine, and drilling machine – construction and kinematics; machining processes - turning, taper turning, thread cutting, drilling, boring, milling, gear cutting, thread production, grinding; geometry of single point cutting tools, chip formation, cutting forces, specific cutting energy and power requirements, Merchant's analysis; basis of selection of machining parameters; tool materials, tool wear and tool life, economics of machining, thermal aspects of machining, cutting fluids, machinability	17	25	45 min	
18	**Manufacturing Process- 4:** Production of metal/ceramic powders, compaction and sintering of metals and ceramic powders. Polymers and Composites: Plastic processing – injection, compression and blow molding, extrusion, calendaring and thermoforming; molding of composites.	17	25	45 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
19	**Manufacturing Process- 5:** Jigs and fixtures – principles, applications, and design Metrology and Inspection: Limits, fits, and tolerances, gauge design, interchangeability, selective assembly; linear, angular, and form measurements (straightness, squareness, flatness, roundness, and cylindricity) by mechanical and optical methods; inspection of screw threads and gears; surface finish measurement by contact and non-contact methods;tolerance analysis in manufacturing and assembly.	17	25	45 min	Active
20	**Manufacturing Process- 6:** Computer Integrated Manufacturing: Basic concepts of CAD – geometric modeling, CAM – CNC and robotics – configurations, drives and controls, Group Technology and its applications – CAPP, cellular manufacturing and FMS. Non-traditional Manufacturing: Principles, applications, effect of process parameters on MRR and product quality of non-traditional machining processes – USM, AJM, WJM, AWJM, EDM and Wire cut EDM, LBM, EBM, PAM, CHM, ECM.	17	25	45 min	
21	**Industrial Engineering-1:** Industrial Engineering Operations Research and Operations Management 1 **Industrial Engineering :** **Work system design:** Taylor's scientific management, Gilbreths's contributions; productivity – concepts and measurements; method study, micro-motion study, principles of motion economy; work measurement –time study, work sampling, standard data, PMTS; ergonomics; job evaluation, merit rating, incentive schemes, and wage administration., **Operations Research and Operations Management Engineering** **Economy and Costing:** Elementary cost accounting and methods of depreciation; break-even analysis, techniques for evaluation of capital investments, financial statements, time-cost trade-off, resource levelling. Inventory – functions, costs, classifications, deterministic inventory models, quantity discount; perpetual and periodic inventory control systems.	17	25	45 min	
22	**Industrial Engineering Operations Research and Operations Management 2** **Industrial Engineering** **Product Design and Development:** Principles of good product design, tolerance design; quality and cost considerations; product life cycle; standardization, simplification, diversification, value engineering and analysis, concurrent engineering; comparison of production alternatives. **Operations Research and Operations Management** **Project Management** PERT/CPM	17	25	45 min	
23	**Operations Research and Operations Management Quality and reliability** **Operations Research and Operations Management** **Operation Research:** Linear programming – problem formulation, simplex method, duality and sensitivity analysis; transportation and assignment models; network flow models, constrained optimization and Lagrange multipliers; Markovian queuing models; dynamic programming; simulation – manufacturing applications. **Quality management:** Quality – concept and costs; quality assurance; statistical quality control, acceptance sampling, zero defects, six sigma; total quality management; ISO 9000. **Reliability and Maintenance:** Reliability, availability and maintainability; distribution of failure and repair times; determination of MTBF and MTTR, reliability models; determination of system reliability; preventive maintenance and replacement. Quality Management, Reliability and Maintenance	17	25	45 min	
24	**Industrial Engineering Operations Research and Operations Management 3** **Operations Research and Operations Management** **Production control:** Forecasting techniques – causal and time series models, moving average, exponential smoothing, trend and seasonality; aggregate production planning; master production scheduling; MRP and MRP-II; routing, scheduling and priority dispatching; Push and pull production systems, concept of JIT manufacturing system; Logistics, distribution, and supply chain management; **Industrial Engineering** **Facility Design:** Facility location factors and evaluation of alternate locations; types of plant layout and their evaluation; computer aided layout design techniques; assembly line balancing; materials handling systems.	17	25	45 min	

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
Single Subject Tests					
25	TOM & Machine Design	33	50	90 min	Active
26	Fluid Mechanics	33	50	90 min	
27	Thermodynamics	33	50	90 min	
28	Applied Mechanics	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Manufacturing Process-I (1+2+4)	33	50	90 min	Active
32	Manufacturing Process-II (3+5+6)	33	50	90 min	
33	IC Engine + Heat Transfer	33	50	90 min	
34	Material Science	33	50	90 min	
35	Industrial Engineering + Quality Management + Reliability & Maintenance	33	50	90 min	
36	Operation Research	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	Active
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	Active
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Mock Tests					
45	GATE Mock Test 1	65	100	180 min	Active
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Heat Transfer-1:** Equation of energy, steady and unsteady heat conduction, convection.	17	25	45 min	1-04-2026
2	**Heat Transfer-2:** Radiation, thermal boundary layer and heat transfer coefficients, boiling, condensation and evaporation; types of heat exchangers and evaporators and their process calculations; design of double pipe, shell and tube heat exchangers, and single and multiple effect evaporators.	17	25	45 min	
3	**Chemical Reaction Engineering-1:** Theories of reaction rates; kinetics of homogeneous reactions, interpretation of kinetic data, single and multiple reactions in ideal reactors.	17	25	45 min	
4	**Chemical Reaction Engineering-2:** Non-ideal reactors; residence time distribution, single parameter model; non-isothermal reactors.	17	25	45 min	
5	**Chemical Reaction Engineering-3:** Kinetics of enzyme reactions (Michaelis-Menten and Monod models); kinetics of heterogeneous catalytic reactions; diffusion effects in catalysis; rate and performance equations for catalyst deactivation.	17	25	45 min	
6	**Fluid Mechanics-1:** Fluid statics, surface tension, Newtonian and non-Newtonian fluids, transport properties, shell-balances including differential form of Bernoulli equation and energy balance, equation of continuity, equation of motion, equation of mechanical energy, Macroscopic friction factors, dimensional analysis and similitude.	17	25	45 min	
7	**Fluid Mechanics-2:** Flow through pipeline systems, velocity profiles, flow meters, pumps and compressors, elementary boundary layer theory, flow past immersed bodies including packed and fluidized beds, Turbulent flow: fluctuating velocity, universal velocity profile and pressure drop.	17	25	45 min	10-04-2026
8	**Mechanical Operations-3:** Particle size and shape, particle size distribution, size reduction and classification of solid particles; free and hindered settling; centrifuge and cyclones; thickening and classification, filtration, agitation and mixing; conveying of solids.	17	25	45 min	
9	**Engineering mathematics-1:** Linear Algebra, Calculus, Numerical Methods .	17	25	45 min	
10	**Engineering mathematics-2:** Differential Equations, Complex Analysis, Probability and Statistics.	17	25	45 min	
11	**General Aptitude (Part-1):** Numerical Ability, Numerical computation, numerical estimation, and data interpretation.	17	25	45 min	
12	**General Aptitude (Part-2) :** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning, numerical reasoning, verbal deduction and spatial aptitude.	17	25	45 min	
13	**Plant Design and Economics-1:** Principles of process economics and cost estimation including depreciation and total annualized cost, cost indices, rate of return, payback period.	17	25	45 min	20-04-2026
14	**Plant Design and Economics-2:** Discounted cash flow, optimization in process design and sizing of chemical engineering equipments such as heat exchangers and multistage contactors.	17	25	45 min	
15	**Instrumentation and Process Control-1:** Measurement of process variables; sensors and transducers; P & ID equipment symbols; process modeling and linearization, transfer functions and dynamic responses of various systems, systems with inverse response.	17	25	45 min	
16	**Instrumentation and Process Control-2:** Process reaction curve, controller modes (P, PI, and PID); control valves; transducer dynamics; analysis of closed loop systems including stability, frequency response, controller tuning, cascade and feed forward control.	17	25	45 min	
17	**Thermodynamics and Process Calculations-1:** Steady and unsteady state mass and energy balances including multiphase, multi-component, reacting and non-reacting systems. Use of tie components; recycle, bypass and purge calculations; Gibb's phase rule and degree of freedom analysis.	17	25	45 min	
18	**Thermodynamics and Process Calculations-2:** First and Second laws of thermodynamics. Applications of first law to close and open systems. Second law and Entropy. Thermodynamic properties of pure substances.	17	25	45 min	
19	**Thermodynamics and Process Calculations-3:** Equation of State and residual properties, properties of mixtures: partial molar properties, fugacity, excess properties and activity coefficients; phase equilibria: predicting VLE of systems; chemical reaction equilibrium.	17	25	45 min	30-04-2026
20	**Chemical Technology-1:** Inorganic chemical industries (sulfuric acid, phosphoric acid, chlor-alkali industry), fertilizers (Ammonia, Urea, SSP and TSP); natural products industries (Pulp and Paper, Sugar, Oil, and Fats).	17	25	45 min	
21	**Chemical Technology-2:** Petroleum refining and petrochemicals; polymerization industries (polyethylene, polypropylene, PVC and polyester synthetic fibers).	17	25	45 min	
22	**Mass Transfer-1:** Fick's laws, molecular diffusion in fluids, mass transfer coefficients, film, penetration and surface renewal theories; momentum, heat and mass transfer analogies.	17	25	45 min	
23	**Mass Transfer-2:** Stage-wise and continuous contacting and stage efficiencies; HTU & NTU concepts; design and operation of equipment for distillation, absorption.	17	25	45 min	
24	**Mass Transfer-3:** Leaching, liquid-liquid extraction, drying, humidification, dehumidification and adsorption, membrane separations(micro-filtration, ultra-filtration, nano-filtration and reverse osmosis).	17	25	45 min	

GATE 2027
ONLINE TEST SERIES

CH

Detailed Schedule

CHEMICAL ENGINEERING

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Thermodynamics	33	50	90 min	15-05-2026
26	Heat Transfer	33	50	90 min	
27	Chemical Reaction Engineering	33	50	90 min	
28	Process Calculation and Mechanical Operation	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Instrumentation and Process Control	33	50	90 min	30-05-2026
32	Fluid Mechanics	33	50	90 min	
33	Mass Transfer	33	50	90 min	
34	Instrument and Process Control	33	50	90 min	
35	Plant Design and Economics	33	50	90 min	
36	Chemical Technology	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	15-06-2026
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	30-06-2026
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Candidate has to upload GATE-2026 Admit Card to access below mentioned tests					
45	GATE Mock Test 1	65	100	180 min	30-07-2026
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Heat Transfer-1:** Equation of energy, steady and unsteady heat conduction, convection.	17	25	45 min	Active
2	**Heat Transfer-2:** Radiation, thermal boundary layer and heat transfer coefficients, boiling, condensation and evaporation; types of heat exchangers and evaporators and their process calculations; design of double pipe, shell and tube heat exchangers, and single and multiple effect evaporators.	17	25	45 min	
3	**Chemical Reaction Engineering-1:** Theories of reaction rates; kinetics of homogeneous reactions, interpretation of kinetic data, single and multiple reactions in ideal reactors.	17	25	45 min	
4	**Chemical Reaction Engineering-2:** Non-ideal reactors; residence time distribution, single parameter model; non-isothermal reactors.	17	25	45 min	
5	**Chemical Reaction Engineering-3:** Kinetics of enzyme reactions (Michaelis-Menten and Monod models); kinetics of heterogeneous catalytic reactions; diffusion effects in catalysis; rate and performance equations for catalyst deactivation.	17	25	45 min	
6	**Fluid Mechanics-1:** Fluid statics, surface tension, Newtonian and non-Newtonian fluids, transport properties, shell-balances including differential form of Bernoulli equation and energy balance, equation of continuity, equation of motion, equation of mechanical energy, Macroscopic friction factors, dimensional analysis and similitude.	17	25	45 min	
7	**Fluid Mechanics-2:** Flow through pipeline systems, velocity profiles, flow meters, pumps and compressors, elementary boundary layer theory, flow past immersed bodies including packed and fluidized beds, Turbulent flow: fluctuating velocity, universal velocity profile and pressure drop.	17	25	45 min	Active
8	**Mechanical Operations-3:** Particle size and shape, particle size distribution, size reduction and classification of solid particles; free and hindered settling; centrifuge and cyclones; thickening and classification, filtration, agitation and mixing; conveying of solids.	17	25	45 min	
9	**Engineering mathematics-1:** Linear Algebra, Calculus, Numerical Methods .	17	25	45 min	
10	**Engineering mathematics-2:** Differential Equations, Complex Analysis, Probability and Statistics.	17	25	45 min	
11	**General Aptitude (Part-1):** Numerical Ability, Numerical computation, numerical estimation, and data interpretation.	17	25	45 min	
12	**General Aptitude (Part-2) :** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning, numerical reasoning, verbal deduction and spatial aptitude.	17	25	45 min	
13	**Plant Design and Economics-1:** Principles of process economics and cost estimation including depreciation and total annualized cost, cost indices, rate of return, payback period.	17	25	45 min	Active
14	**Plant Design and Economics-2:** Discounted cash flow, optimization in process design and sizing of chemical engineering equipments such as heat exchangers and multistage contactors.	17	25	45 min	
15	**Instrumentation and Process Control-1:** Measurement of process variables; sensors and transducers; P & ID equipment symbols; process modeling and linearization, transfer functions and dynamic responses of various systems, systems with inverse response.	17	25	45 min	
16	**Instrumentation and Process Control-2:** Process reaction curve, controller modes (P, PI, and PID); control valves; transducer dynamics; analysis of closed loop systems including stability, frequency response, controller tuning, cascade and feed forward control.	17	25	45 min	
17	**Thermodynamics and Process Calculations-1:** Steady and unsteady state mass and energy balances including multiphase, multi-component, reacting and non-reacting systems. Use of tie components; recycle, bypass and purge calculations; Gibb's phase rule and degree of freedom analysis.	17	25	45 min	
18	**Thermodynamics and Process Calculations-2:** First and Second laws of thermodynamics. Applications of first law to close and open systems. Second law and Entropy. Thermodynamic properties of pure substances.	17	25	45 min	
19	**Thermodynamics and Process Calculations-3:** Equation of State and residual properties, properties of mixtures: partial molar properties, fugacity, excess properties and activity coefficients; phase equilibria: predicting VLE of systems; chemical reaction equilibrium.	17	25	45 min	Active
20	**Chemical Technology-1:** Inorganic chemical industries (sulfuric acid, phosphoric acid, chlor-alkali industry), fertilizers (Ammonia, Urea, SSP and TSP); natural products industries (Pulp and Paper, Sugar, Oil, and Fats).	17	25	45 min	
21	**Chemical Technology-2:** Petroleum refining and petrochemicals; polymerization industries (polyethylene, polypropylene, PVC and polyester synthetic fibers).	17	25	45 min	
22	**Mass Transfer-1:** Fick's laws, molecular diffusion in fluids, mass transfer coefficients, film, penetration and surface renewal theories; momentum, heat and mass transfer analogies.	17	25	45 min	
23	**Mass Transfer-2:** Stage-wise and continuous contacting and stage efficiencies; HTU & NTU concepts; design and operation of equipment for distillation, absorption.	17	25	45 min	
24	**Mass Transfer-3:** Leaching, liquid-liquid extraction, drying, humidification, dehumidification and adsorption, membrane separations(micro-filtration, ultra-filtration, nano-filtration and reverse osmosis).	17	25	45 min	

Test No.	Test Syllabus	No. of Ques.	Marks	Duration	Activation Date
Single Subject Tests					
25	Thermodynamics	33	50	90 min	Active
26	Heat Transfer	33	50	90 min	
27	Chemical Reaction Engineering	33	50	90 min	
28	Process Calculation and Mechanical Operation	33	50	90 min	
29	Engineering Mathematics	33	50	90 min	
30	General Aptitude	33	50	90 min	
31	Instrumentation and Process Control	33	50	90 min	Active
32	Fluid Mechanics	33	50	90 min	
33	Mass Transfer	33	50	90 min	
34	Instrument and Process Control	33	50	90 min	
35	Plant Design and Economics	33	50	90 min	
36	Chemical Technology	33	50	90 min	
Full Syllabus Tests					
37	Full Syllabus Test-1 (Basic Level)	65	100	180 min	Active
38	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
39	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
40	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
41	Full Syllabus Test-5 (Advance Level)	65	100	180 min	Active
42	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
43	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
44	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
Mock Tests					
45	GATE Mock Test 1	65	100	180 min	Active
46	GATE Mock Test 2	65	100	180 min	
47	GATE Mock Test 3	65	100	180 min	
48	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Linear Algebra-1:** Vector space, subspaces, linear dependence and independence of vectors, matrices, projection matrix, orthogonal matrix.	17	25	45 min	1-04-2026
2	**Linear Algebra-2:** Systems of linear equations and solutions; Gaussian elimination, eigenvalues and eigenvectors, determinant, rank, nullity, projections, LU decomposition, singular value decomposition.	17	25	45 min	
3	**Calculus and Optimization-1:** Functions of a single variable, limit, continuity and differentiability.	17	25	45 min	
4	**Calculus and Optimization-2:** Taylor series, maxima and minima, optimization involving a single variable.	17	25	45 min	
5	**Probability and Statistics-1:** Counting (permutation and combinations), probability axioms, Sample space, events, independent events, mutually exclusive events, marginal, conditional and joint probability, Bayes Theorem.	17	25	45 min	10-04-2026
6	**Probability and Statistics-2:** Conditional and joint probability, Bayes Theorem, conditional expectation and variance, mean, median, mode and standard deviation, correlation, and covariance, random variables, discrete random variables and probability mass functions, uniform.	17	25	45 min	
7	**Probability and Statistics-3:** Bernoulli, binomial distribution, Continuous random variables and probability distribution function, uniform, exponential, Poisson, normal, standard normal, t-distribution, chi-squared distributions, cumulative distribution function, Conditional PDF, Central limit theorem, confidence interval, z-test, t-test, chi-squared test.	17	25	45 min	
8	**General Aptitude-1:** Numerical Ability: Numerical computation, numerical estimation, numerical reasoning and data interpretation.	17	25	45 min	
9	**General Aptitude-2:** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction.	17	25	45 min	
10	**Programming, Data Structures and Algorithms-1:** Programming in Python, basic data structures: stacks, queues, linked lists, trees, hash tables; Search algorithms: linear search and binary search.	17	25	45 min	20-04-2026
11	**Programming, Data Structures and Algorithms-2:** Basic sorting algorithms: selection sort, bubble sort and insertion sort; divide and conquer: mergesort, quicksort; introduction to graph theory; basic graph algorithms: traversals and shortest path.	17	25	45 min	
12	**Database Management and Warehouse-1:** ER-model, relational model: relational algebra, tuple calculus, SQL, integrity constraints.	17	25	45 min	
13	**Database Management and Warehouse-2:** Normal form, file organization, Discretization, sampling, compression; data warehouse modelling: schema for multi-dimensional data models, concept hierarchies, measures: categorization & computations	17	25	45 min	
14	**Machine Learning-1:** Supervised Learning: regression and classification problems, simple linear regression, multiple linear regression, ridge regression, logistic regression, k-nearest neighbour, Naive Bayes classifier.	17	25	45 min	30-04-2026
15	**Machine Learning-2:** Linear discriminant analysis, support vector machine, decision trees, bias-variance trade-off, cross-validation methods such as leave-one-out (LOO) cross-validation, k-folds cross-validation.	17	25	45 min	
16	**Machine Learning-3:** Multi-layer perceptron, feed-forward neural network; (ii) Unsupervised Learning: clustering algorithms, k-means/k-medoid, hierarchical clustering, top-down, bottom-up: single-linkage, multiple linkage, dimensionality reduction, principal component analysis.	17	25	45 min	
17	**Artificial Intelligence-1:** Informed, uninformed, adversarial; logic, propositional, predicate; reasoning under uncertainty topics - conditional independence representation.	17	25	45 min	
18	**Artificial Intelligence-2:** Exact inference through variable elimination, and approximate inference through sampling.	17	25	45 min	

Single Subject Tests

19	Linear Algebra	33	50	90 min	15-05-2026
20	Calculus and Optimization	33	50	90 min	
21	Probability and Statistics	33	50	90 min	
22	Programming, Data Structures and Algorithms	33	50	90 min	
23	Database Management and Warehouse	33	50	90 min	30-05-2026
24	Machine Learning	33	50	90 min	
25	Artificial Intelligence	33	50	90 min	
26	General Aptitude	33	50	90 min	

Full Syllabus Test

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
27	Full Syllabus Test-1 (Basic Level)	65	100	180 min	15-06-2026
28	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
29	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
30	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
31	Full Syllabus Test-5 (Advance Level)	65	100	180 min	30-06-2026
32	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
33	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
34	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
35	GATE Mock Test 1	65	100	180 min	30-07-2026
36	GATE Mock Test 2	65	100	180 min	
37	GATE Mock Test 3	65	100	180 min	
38	GATE Mock Test 4	65	100	180 min	

Topicwise Tests

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
1	**Probability and Statistics-1:** Counting (permutation and combinations), probability axioms, Sample space, events, independent events, mutually exclusive events, marginal, conditional and joint probability, Bayes Theorem.	17	25	45 min	
2	**Probability and Statistics-2:** Conditional and joint probability, Bayes Theorem, conditional expectation and variance, mean, median, mode and standard deviation, correlation, and covariance, random variables, discrete random variables and probability mass functions, uniform.	17	25	45 min	**Active**
3	**Probability and Statistics-3:** Bernoulli, binomial distribution, Continuous random variables and probability distribution function, uniform, exponential, Poisson, normal, standard normal, t-distribution, chi-squared distributions, cumulative distribution function, Conditional PDF, Central limit theorem, confidence interval, z-test, t-test, chi-squared test.	17	25	45 min	
4	**Linear Algebra-1:** Vector space, subspaces, linear dependence and independence of vectors, matrices, projection matrix, orthogonal matrix.	17	25	45 min	
5	**Linear Algebra-2:** Systems of linear equations and solutions; Gaussian elimination, eigenvalues and eigenvectors, determinant, rank, nullity, projections, LU decomposition, singular value decomposition.	17	25	45 min	
6	**Calculus and Optimization-1:** Functions of a single variable, limit, continuity and differentiability.	17	25	45 min	**Active**
7	**General Aptitude-1:** Numerical Ability: Numerical computation, numerical estimation, numerical reasoning and data interpretation.	17	25	45 min	
8	**General Aptitude-2:** Verbal Ability: English grammar, sentence completion, verbal analogies, word groups, instructions, critical reasoning and verbal deduction.	17	25	45 min	
9	**Calculus and Optimization-2:** Taylor series, maxima and minima, optimization involving a single variable.	17	25	45 min	
10	**Programming, Data Structures and Algorithms-1:** Programming in Python, basic data structures: stacks, queues, linked lists, trees, hash tables; Search algorithms: linear search and binary search.	17	25	45 min	
11	**Programming, Data Structures and Algorithms-2:** Basic sorting algorithms: selection sort, bubble sort and insertion sort; divide and conquer: mergesort, quicksort; introduction to graph theory; basic graph algorithms: traversals and shortest path.	17	25	45 min	**Active**
12	**Machine Learning-1:** Supervised Learning: regression and classification problems, simple linear regression, multiple linear regression, ridge regression, logistic regression, k-nearest neighbour, Naive Bayes classifier.	17	25	45 min	
13	**Machine Learning-2:** Linear discriminant analysis, support vector machine, decision trees, bias-variance trade-off, cross-validation methods such as leave-one-out (LOO) cross-validation, k-folds cross-validation.	17	25	45 min	
14	**Machine Learning-3:** Multi-layer perceptron, feed-forward neural network; (ii) Unsupervised Learning: clustering algorithms, k-means/k-medoid, hierarchical clustering, top-down, bottom-up: single-linkage, multiple linkage, dimensionality reduction, principal component analysis.	17	25	45 min	
15	**Artificial Intelligence-1:** Informed, uninformed, adversarial; logic, propositional, predicate; reasoning under uncertainty topics - conditional independence representation.	17	25	45 min	
16	**Artificial Intelligence-2:** Exact inference through variable elimination, and approximate inference through sampling.	17	25	45 min	**Active**
17	**Database Management and Warehouse-1:** ER-model, relational model: relational algebra, tuple calculus, SQL, integrity constraints.	17	25	45 min	
18	**Database Management and Warehouse-2:** Normal form, file organization, Discretization, sampling, compression; data warehouse modelling: schema for multi-dimensional data models, concept hierarchies, measures: categorization & computations	17	25	45 min	
	Single Subject Tests				
19	Probability and Statistics	33	50	90 min	
20	Linear Algebra	33	50	90 min	**Active**
21	Calculus and Optimization	33	50	90 min	
22	Programming, Data Structures and Algorithms	33	50	90 min	
23	Database Management and Warehouse	33	50	90 min	
24	Machine Learning	33	50	90 min	**Active**
25	Artificial Intelligence	33	50	90 min	
26	General Aptitude	33	50	90 min	

Full Syllabus Test

Test No.	Test Syllabus	No. of Ques.	Marks	Time	Activation Date
27	Full Syllabus Test-1 (Basic Level)	65	100	180 min	Active
28	Full Syllabus Test-2 (Basic Level)	65	100	180 min	
29	Full Syllabus Test-3 (Basic Level)	65	100	180 min	
30	Full Syllabus Test-4 (Basic Level)	65	100	180 min	
31	Full Syllabus Test-5 (Advance Level)	65	100	180 min	Active
32	Full Syllabus Test-6 (Advance Level)	65	100	180 min	
33	Full Syllabus Test-7 (Advance Level)	65	100	180 min	
34	Full Syllabus Test-8 (Advance Level)	65	100	180 min	
35	GATE Mock Test 1	65	100	180 min	Active
36	GATE Mock Test 2	65	100	180 min	
37	GATE Mock Test 3	65	100	180 min	
38	GATE Mock Test 4	65	100	180 min	

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