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

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Branch: Chemical Engineering

Test Name

Topic Wise Tests

Total 24 tests

Subject Wise Tests (Basic Level)

Total 12 tests

Subject Wise Test (Advance Level)

Total 12 tests

Multiple Subjects Tests

Total 12 tests

Full Length Mock GATE

Total 10 tests

Topic-wise Tests (One Year Program)

Each test carries 30 marks and 45 minutes duration. Test consists of 10 one mark questions and 10 two marks questions.

	Topic	Subject
Test 1	Fluid Properties, Fluid Statics, Fluid Kinematics, Fluid dynamics	Fluid
Test 2	Internal flow, Boundary layer, Pumps, Flow meters.	Mechanics

	Topic	Subject
Test 1	Linear Algebra, Differential Equations, Vector calculus, Probability	Engineering Mathematics
Test 2	Differential Calculus, Integral calculus, Complex numbers, maxima & minima	

	Topic	Subject
Test 1	 Diffusion MT Coefficient, MT Theories and Dimensionless Nos Interphase Mass Transfer Absorption Distillation 	Mass Transfer
Test 2	6. Extraction7. Humidification8. Drying9. Adsorption10. Membrane Separation	

	Topic	Subject
	1. Polymerization Industries	
Test 1	2. Petroleum Refining	
	3. Petro-Chemicals	
	4. Natural Products Industries (Pulp and	Chemical
	Paper, Sugar, Oil, Fats & Detergents)	Technology
Test 2	5. Fertilizers (Ammonia, Urea, SSP and TSP)	
	6. Inorganic chemical industries (sulfuric	
	acid, phosphoric acid, chlor-alkali industry)	

	Topic	Subject
Test 1	Classical Thermodynamics	Thormodynamics
Test 2	Solution Thermodynamics	Thermodynamics

	Topic	Subject
Test 1	Conduction(Steady and unsteady state, heat generation), convection	
Test 2	Radiation, Heat Exchanger, Evaporator, Boiling & Condensation	Heat Transfer

		Topic	Subject
	1.	Theories of reaction rates	
	2.	Kinetics of homogeneous reactions	
Test 1	3.	Interpretation of kinetic data	
	4.	Single and multiple reactions in ideal reactors	
	5.	Kinetics of enzyme reactions (Michaelis-Menten & Monod Mo.)	Chemical
	6.	Non-ideal reactors, Residence time distribution and Single	Reaction
		parameter model	Engineering
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Test 2	8.	Kinetics of heterogeneous catalytic reactions	
	9.	Diffusion effects in catalysis	
	10.	. Rate and performance equations for catalyst deactivation	

	Topic	Subject
Test 1	Introduction and material balance without chemical reaction	Process Calculations
Test 2	Material balance with chemical reaction, combustion, Energy balances	

	Topic	Subject
	1. Laplace Transform	
	2. First Order Systems	
Test 1	3. Second & Higher order Systems	
	4. Closed Loop and Feedback Control	
	5. Stability of Control System and Routh Array Method	Instrumentation
	6. Frequency Response, Bode Stability Criteria & Controller tuning	and Process Control
	7. Control Valves	
Test 2	8. Feed forward and Cascade Control	
	9. Inverse Response	
	10. Instrumentation	

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

	Topic	Subject
Test 1	Cost indices, time value of money, Depreciation	
Test 2	Design, breakeven point and optimization, Profitability	Plant Design & Economics

	Topic	Subject
Test 1	Size reduction and solid handling	Mechanical
Test 2	Fluidization, filtration, Mixing	Operations

Basic Subject-wise Tests (One Year Program)

Each test carries 50 marks and 90 minutes duration.

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

Subjects	No. of Tests
General Aptitude + General English	01
Fluid Mechanics	01
Engineering Mathematics	01
Mass Transfer	01
Heat Transfer	01
Mechanical Operations	01
Chemical Reaction Engineering	01
Thermodynamics	01
Instrumentation & Process Control	01
Mechanical Operations	01
Chemical Technology	01
Plant Design & Economics	01

Advance Subject-wise Tests (One Year Program)

Each test carries 50 marks and 90 minutes duration.

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

Subjects	No. of Tests
General Aptitude + General English	01
Fluid Mechanics	01
Engineering Mathematics	01
Mass Transfer	01
Heat Transfer	01
Mechanical Operations	01
Chemical Reaction Engineering	01
Thermodynamics	01
Instrumentation & Process Control	01
Mechanical Operations	01
Chemical Technology	01
Plant Design & Economics	01

Multi-Subject Tests (One Year Program)

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

Subjects	
Basic Level	Advanced Level
Aptitude + Engineering Maths	Aptitude + Engineering Maths
Network Theory + Machines	Network Theory + Machines
PC + Thermodynamics	PC + Thermodynamics
MT + HT	MT + HT
CRE + PDC	CRE + PDC
CT + Economics	CT + Economics

Full Length Mock GATE (Tentative Details for One Year Program)

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

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

Finally... How to get registered for Test Series?

Step - I	Step - II
Visit	Send completely filled
http://onlinetestseries.gateacademy.co.in	registration form to our office
Click on New Registration	(for gate academy student)
Fill the Form, You will be Redirected to the Test Portal	
Click on buy Package Make Payment using Coupon code	
(For gate academy student) or by online payment.	