

GATE 2018 Online Test Series - Chemical Engineering

Test No	Type of test	Test Start Date	Test End Date	Topic	Test Syllabus	Difficulty level	No of questions	Max Marks	Test Duration	
1	Unit Test - Partial Syllabus	29th March 2017 Onwards	11th February 2018	Engineering Mathematics-I	Linear algebra, statistics	Easy	10	15	30 min	
2				Engineering Mathematics-II	Probability, calculus	Easy	10	15	30 min	
3				Engineering Mathematics-III	19th July, 2017	11th February 2017	10	15	30 min	
4				Engineering Mathematics-IV	2nd August, 2017	11th February 2017	10	15	30 min	
5				Process Calculations-I	16th August, 2017	11th February 2017	10	15	30 min	
6				Process Calculations-II	30th August, 2017	12th September, 2017	10	15	30 min	
7				Thermodynamics-I	13th September, 2017	11th February 2017	10	15	30 min	
8				Thermodynamics-II	27th September, 2017	10th October, 2017	10	15	30 min	
9				Thermodynamics-III	4th October, 2017	11th February 2017	10	15	30 min	
10				Fluid Mechanics-I	18th October, 2017	31st October, 2017	10	15	30 min	
11				Fluid Mechanics-II	1st November, 2017	11th February 2017	10	15	30 min	
12				Fluid Mechanics-III	8th November, 2017	21st November, 2017	10	15	30 min	
13				Fluid Mechanics-IV	23rd December, 2017	29th December, 2017	10	15	30 min	
14				Mechanical Operations-I	29th November, 2017	12th December, 2017	10	15	30 min	
15				Mechanical Operations-II	30th December, 2017	5th January, 2018	10	15	30 min	
16				Heat Transfer-I	13th December, 2017	26th December, 2017	10	15	30 min	
17				Heat Transfer-II	6th January, 2018	12th January, 2018	10	15	30 min	
18				Heat Transfer-III	23rd January, 2018	29th January, 2018	10	15	30 min	
19				Heat Transfer-IV	Heat Exchangers, Heat Transfer In Boiling and Condensation, Radiation		Easy	10	15	30 min
20				Mass Transfer-I	Diffusion, Mass Transfer Coefficients		Easy	10	15	30 min
21				Mass Transfer-II	Mass Transfer Coefficients, Absorption and Adsorption, Humidification		Easy	10	15	30 min
22				Mass Transfer-III	Distillation		Easy	10	15	30 min
23				Mass Transfer-IV	Drying, Absorption and Adsorption, Diffusion		Easy	10	15	30 min
24				Chemical Reaction Engineering-I	Interpretation of Batch reactor Data, Non Ideal Flow Reactors, Single Reactions In Ideal Reactors, Ideal Reactors, Non Isothermal Reactors		Easy	10	15	30 min
25				Chemical Reaction Engineering-II	Interpretation of Batch reactor Data, Kinetics of Homogenous Reactions, Chemical Engineering Thermodynamics, Non Ideal Flow Reactors, Single Reactions In Ideal Reactors,		Easy	10	15	30 min
26				Chemical Reaction Engineering-III	Kinetics of Heterogenous Reactions, Theories of Reaction Rates, Interpretation of Batch reactor Data, Non Ideal Flow Reactors, Ideal Reactors,		Easy	10	15	30 min
27				Chemical Reaction Engineering-IV	Interpretation of Batch reactor Data, Multiple Reactions In Ideal Reactors, Non Isothermal Reactors, Theories of Reaction Rates, Ideal Reactors,		Easy	10	15	30 min
28				Instrumentation-I	Introduction To Instrumentation, Dynamics of Sensors & Transducers, Pressure Measurement, Temperature Measurement,		Easy	10	15	30 min
29				Instrumentation-II	Introduction To Instrumentation Temperature Measurement,, Pressure Measurement,		Easy	10	15	30 min
30				Process Control-I	Dynamic Behavior of A Chemical Processes, Frequency Analysis and Design, Process Modeling and Linearization, Laplace Trnafoms, Advance Control Strategies,		Easy	10	15	30 min
31				Process Control-II	Frequency Analysis and Design, Dynamic Behavior of A Chemical Processes,		Easy	10	15	30 min
32				Plant Design Economics-I	Principles of Process Economics & Cost Estimation, Sizing of Chemical Engineering Equipments,		Easy	10	15	30 min

33			Plant Design Economics-II	Sizing of Chemical Engineering Equipments, Optimization In Process Design, Principles of Process Economics & Cost Estimation	Easy	10	15	30 min
34			Plant Design Economics-III	Principles of Process Economics & Cost Estimation	Easy	10	15	30 min
35			Chemical Technology-I	Polymers, Natural Products Industries, Chemical Process Industries, Petrochemicals, Inorganic Chemicals,	Easy	10	15	30 min
36			Chemical Technology-II	Polymers, Petroleum Refining, Inorganic Chemicals, Natural Products Industries, Natural Products Industries,	Easy	10	15	30 min
37			Verbal Ability-I	Antonyms, synonyms, verbal analogies, word group, spotting errors and vocabulary building	Easy	10	15	30 min
38			Verbal Ability-II	Sentence completion, sentence improvement, critical reasoning, statements and conclusions,	Easy	10	15	30 min
39			Numerical Ability-I	Profit or loss, averages, number series,time and work, time, speed and distance, ratios and proportions and functions	Easy	10	15	30 min
40			Numerical Ability-II	Data interpretation, data sufficiency, clocks and calendars, directions and blood relations	Easy	10	15	30 min

1	Section Test - Partial Syllabus	7th June 2017 Onwards	11th February 2018	Engineering Mathematics-I	LINEAR ALGEBRA,STATISTICS	Moderate	20	30	60 min
2				Engineering Mathematics-II	PROBABILITY,CALCULUS	Moderate	20	30	60 min
3				Engineering Mathematics-III	NUMERICAL METHODS,VECTOR CALCULUS,INTEGRAL CALCULUS	Moderate	20	30	60 min
4				Engineering Mathematics-IV	LAPLACE TRANSFORMS,DIFFERENTIAL EQUATIONS,INTEGRAL CALCULUS	Moderate	20	30	60 min
5				Process Calculations-I	Chemical process calculations, Material Balances	Moderate	20	30	60 min
6				Process Calculations-II	Combustion Calculation; GCV and NCV, Recycle, Bypass, Purge and Industrial applications.	Moderate	20	30	60 min
7				Thermodynamics-I	Solution Thermodynamics, First Law Of Thermodynamics, Second Law Of Thermodynamics	Moderate	20	30	60 min
8				Thermodynamics-II	Second Law of Thermodynamics, Heat & Refrigeration Cycles, PVT Behaviour and Heat Effects, First Law of Thermodynamics	Moderate	20	30	60 min
9				Thermodynamics-III	Thermodynamic Properties of Fluids, First & Second Law of Thermodynamics, Chemical Reaction Equilibria, Thermodynamic processes,	Moderate	20	30	60 min
10				Fluid Mechanics-I	Fluid Properties and Static, Kinematics and Dynamics, Flow through pipes	Moderate	20	30	60 min
11				Fluid Mechanics-II	Kinematics and Dynamics, Flow through Pipes	Moderate	20	30	60 min
12				Fluid Mechanics-III	Fluid Statistics, Elementary Boundary Layer Theory, Macroscopic Friction Factors, Pumps and Compressors,	Moderate	20	30	60 min
13				Fluid Mechanics-IV	Flow Through Pipeline Systems, Flow Past Immersed Bodies, Pumps and Compressors, Flow Meters, Fluid Statistics	Moderate	20	30	60 min
14				Mechanical Operations-I	Size Reduction , Agitation and Mixing, Thickening and Classification,	Moderate	20	30	60 min
15				Mechanical Operations-II	Size Reduction and Classification of Solid Particles, Mechanical Operations, Filtration	Moderate	20	30	60 min
16				Heat Transfer-I	Conduction, Heat Exchangers	Moderate	20	30	60 min
17				Heat Transfer-II	Convection	Moderate	20	30	60 min
18				Heat Transfer-III	Radiation, Heat Exchangers	Moderate	20	30	60 min
19				Heat Transfer-IV	Heat Exchangers, Heat Transfer In Boiling and Condensation, Radiation	Moderate	20	30	60 min
20				Mass Transfer-I	Diffusion, Mass Transfer Coefficients	Moderate	20	30	60 min
21				Mass Transfer-II	Mass Transfer Coefficients, Absorption and Adsorption, Humidification	Moderate	20	30	60 min
22				Mass Transfer-III	Distillation	Moderate	20	30	60 min
23				Mass Transfer-IV	Drying, Absorption and Adsorption, Diffusion	Moderate	20	30	60 min
24				Chemical Reaction Engineering-I	Interpretation of Batch reactor Data, Non Ideal Flow Reactors, Single Reactions In Ideal Reactors, Ideal Reactors, Non Isothermal Reactors	Moderate	20	30	60 min
25				Chemical Reaction Engineering-II	Interpretation of Batch reactor Data, Kinetics of Homogenous Reactions, Chemical Engineering Thermodynamics, Non Ideal Flow Reactors, Single Reactions In Ideal Reactors,	Moderate	20	30	60 min
26				Chemical Reaction Engineering-III	Kinetics of Heterogenous Reactions, Theories of Reaction Rates, Interpretation of Batch reactor Data, Non Ideal Flow Reactors, Ideal Reactors,	Moderate	20	30	60 min

27				Chemical Reaction Engineering-IV	Interpretation of Batch reactor Data, Multiple Reactions In Ideal Reactors, Non Isothermal Reactors, Theories of Reaction Rates, Ideal Reactors,	Moderate	20	30	60 min
28				Instrumentation-I	Introduction To Instrumentation, Dynamics of Sensors & Transducers, Pressure Measurement, Temperature Measurement,	Moderate	20	30	60 min
29				Instrumentation-II	Introduction To Instrumentation Temperature Measurement,, Pressure Measurement,	Moderate	20	30	60 min
30				Process Control-I	Dynamic Behavior of A Chemical Processes, Frequency Analysis and Design, Process Modeling and Linearization, Laplace Trnafroms, Advance Control Strategies,	Moderate	20	30	60 min
31				Process Control-II	Frequency Analysis and Design, Dynamic Behavior of A Chemical Processes,	Moderate	20	30	60 min
32				Plant Design Economics-I	Principles of Process Economics & Cost Estimation, Sizing of Chemical Engineering Equipments,	Moderate	20	30	60 min
33				Plant Design Economics-II	Sizing of Chemical Engineering Equipments, Optimization In Process Design, Principles of Process Economics & Cost Estimation	Moderate	20	30	60 min
34				Plant Design Economics-III	Principles of Process Economics & Cost Estimation	Moderate	20	30	60 min
35				Chemical Technology-I	Polymers, Natural Products Industries, Chemical Process Industries, Petrochemicals, Inorganic Chemicals,	Moderate	20	30	60 min
36				Chemical Technology-II	Polymers, Petroleum Refining, Inorganic Chemicals, Natural Products Industries, Natural Products Industries,	Moderate	20	30	60 min
37				Verbal Ability-I	Antonyms, synonyms, verbal analogies, word group, spotting errors and vocabulary building	Moderate	20	30	60 min
38				Verbal Ability-II	Sentence completion, sentence improvement, critical reasoning, statements and conclusions,	Moderate	20	30	60 min
39				Numerical Ability-I	Profitr or loss, averages, number series,time and work, time, speed and distance, ratios and proportions and functions	Moderate	20	30	60 min
40				Numerical Ability-II	Data interpretation, data sufficiency, clocks and calendars, directions and blood relations	Moderate	20	30	60 min
1	Full length Mock Tests	19th July, 2017	11th February 2018	Extra Edge Test-01	Full syllabus	Easy	65	100	180 min
2		2nd August, 2017	11th February 2018	Extra Edge Test-02	Full syllabus	Easy	65	100	180 min
3		16th August, 2017	11th February 2018	Extra Edge Test-03	Full syllabus	Easy	65	100	180 min
4		30th August, 2017	12th September, 2017	Self Administered Test-1	Full syllabus	Easy - Moderate	65	100	180 min
5		13th September, 2017	11th February 2018	Extra Edge Test-04	Full syllabus	Easy - Moderate	65	100	180 min
6		27th September, 2017	10th October, 2017	Self Administered Test-2	Full syllabus	Easy - Moderate	65	100	180 min
7		4th October, 2017	11th February 2018	Extra Edge Test-05	Full syllabus	Easy - Moderate	65	100	180 min
8		18th October, 2017	31st October, 2017	Self Administered Test-3	Full syllabus	Moderate	65	100	180 min
9		1st November, 2017	11th February 2018	Extra Edge Test-06	Full syllabus	Moderate	65	100	180 min
10		8th November, 2017	21st November, 2017	Self Administered Test-4	Full syllabus	Moderate	65	100	180 min
11		23rd December, 2017	29th December,2017	Monitored Test-01	Full syllabus	Moderate	65	100	180 min
12		29th November, 2017	12th December, 2017	Self Administered Test-5	Full syllabus	Moderate - Hard	65	100	180 min
13		30th December, 2017	5th January, 2018	Monitored Test-02	Full syllabus	Moderate - Hard	65	100	180 min
14		13th December, 2017	26th December, 2017	Self Administered Test-6	Full syllabus	Hard	65	100	180 min
15		6th January, 2018	12th January, 2018	Monitored Test-03	Full syllabus	Hard	65	100	180 min
16		23rd January, 2018	29th January, 2018	Monitored Test-04	Full syllabus	GATE level	65	100	180 min