

GATE 2018 Online Test Series - Mechanical Engineering

Test No	Type of test	Test Live from	Test details	Test Syllabus	Difficulty level	No of questions	Max Marks	Test duration
1	Unit Test - Partial Syllabus	29th March 2017 Onwards	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	Numerical Methods, Vector Calculus, Complex Analysis	Easy	10	15	30 min
4			Engineering Mathematics-IV	Laplace Transforms, Differential Equations, Integral Calculus	Easy	10	15	30 min
5			Engineering Mechancis-I	Free-Body Diagrams And Equilibrium, Virtual Work, Trusses And Frames	Easy	10	15	30 min
6			Engineering Mechancis-II	Collisions, Impulse, Momentum And Energy, Virtual Work, Trusses And Frames, Kinematics Of Rigid Bodies In Plane Motion, Basics Of Mechanics	Easy	10	15	30 min
7			Strength of Materials-I	Simple Stress And Strain, Thermal Stresses, Principal Stresses	Easy	10	15	30 min
8			Strength of Materials-II	Ac Circuits	Easy	10	15	30 min
9			Strength of Materials-III	Bending, Buckling, Deflection, Torsional Loading	Easy	10	15	30 min
10			Design of Machine Elements-I	Theories Of Failure, Fluctuation Of Load Consideration For Energy	Easy	10	15	30 min
11			Design of Machine Elements-II	Fluctuation Of Load Consideration For Energy, Welded, Riveted And Bolted Joints, Shafts, Gears And Bearings, Springs	Easy	10	15	30 min
12			Design of Machine Elements-III	Shafts, Gears And Bearings, Brakes And Clutches	Easy	10	15	30 min
13			Theory of Machines-I	Plane Mechanisms, Flywheels	Easy	10	15	30 min
14			Theory of Machines-II	Flywheels, Gear Trains, Gears	Easy	10	15	30 min
15			Theory of Machines-III	Balancing Of Rotating Masses, Gyroscope	Easy	10	15	30 min
16			Vibrations-I	Damped, Free, Transverse, Torsional Vibrations	Easy	10	15	30 min
17			Vibrations-II	Transmissibility, Critical Speed, Forced, Damped, Transverse, Free Vibrations,	Easy	10	15	30 min
18			Fluid Mechanics-I	Fluid Properties And Statics, Kinematics And Dynamics, Flow Through Pipes	Easy	10	15	30 min
19			Fluid Mechanics-II	Kinematics And Dynamics, Flow Through Pipes	Easy	10	15	30 min
20			Fluid Mechanics-III	Flow Through Pipes, Boundary Layer Theory	Easy	10	15	30 min
21			Fluid Mechanics-IV	Turbomachniary	Easy	10	15	30 min
22			Thermal Science-I	Work And Heat, First Law Of Thermodynamics, Entropy And Availability	Easy	10	15	30 min
23			Thermal Science-II	Pure Substances, Rankine Cycle	Easy	10	15	30 min

24		Thermal Science-III	I.C. Engines, Brayton Cycle	Easy	10	15	30 min	
25		Thermal Science-IV	Refrigeration, Brayton Cycle, Psychrometry	Easy	10	15	30 min	
26		Heat Transfer-I	Heat Exchangers, Conduction, Convection	Easy	10	15	30 min	
27		Heat Transfer-II	Conduction, Convection	Easy	10	15	30 min	
28		Heat Transfer-III	Heat Exchangers, Radiation	Easy	10	15	30 min	
29		Manufacturing Science-I	Heat Treatment, Powder Metallurgy, Solidification, Welding	Easy	10	15	30 min	
30		Manufacturing Science-II	Casting, Forging, Sheet Metal Operation, Extrusion, Rolling, Deep Drawing	Easy	10	15	30 min	
31		Manufacturing Science-III	Welding, Forming, Soldering	Easy	10	15	30 min	
32		Manufacturing Science-IV	Machining, Non Conventional Machining, Jigs And Fixtures	Easy	10	15	30 min	
33		Manufacturing Science-V	Comparators, Computer Integrated Manufacturing	Easy	10	15	30 min	
34		Industrial Engineering-I	Inventory Control, Production Planning And Control	Easy	10	15	30 min	
35		Industrial Engineering-II	Scheduling, Transportation, Linear Programming	Easy	10	15	30 min	
36		Industrial Engineering-III	Networking, Inventory, Queuing	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	Profitr 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			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,Complex Analysis	Moderate	20	30	60 min
4			Engineering Mathematics-IV	Laplace Transforms,Differential Equations,Integral Calculus	Moderate	20	30	60 min
5			Engineering Mechancis-I	Free-Body Diagrams And Equilibrium, Virtual Work, Trusses And Frames	Moderate	20	30	60 min
6			Engineering Mechancis-II	Collisions, Impulse, Momentum And Energy, Kinematics Of Rigid Bodies In Plane Motion, Basics Of Mechanics	Moderate	20	30	60 min
7			Strength of Materials-I	Simple Stress And Strain, Thermal Stresses, Principal Stresses	Moderate	20	30	60 min

8	Section Test - Partial Syllabus
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7th June 2017 Onwards

Strength of Materials-II	Pressure Vessel, Strain Energy	Moderate	20	30	60 min
Strength of Materials-III	Bending, Buckling, Deflection Of Beams, Torsional Loading	Moderate	20	30	60 min
Design of Machine Elements-I	Theories Of Failure, Fluctuation Of Load Consideration For Energy	Moderate	20	30	60 min
Design of Machine Elements-II	Welded, Riveted And Bolted Joints, Shafts, Gears And Bearings, Springs	Moderate	20	30	60 min
Design of Machine Elements-III	Shafts, Gears And Bearings, Brakes And Clutches	Moderate	20	30	60 min
Theory of Machines-I	Plane Mechanisms, Flywheels	Moderate	20	30	60 min
Theory of Machines-II	Flywheels, Gear Trains, Gears, Cams	Moderate	20	30	60 min
Theory of Machines-III	Balancing Of Rotating Masses, Gyroscope	Moderate	20	30	60 min
Vibrations-I	Damped, Free, Transverse, Torsional Vibrations	Moderate	20	30	60 min
Vibrations-II	Transmissibility, Critical Speed, Forced Vibrations	Moderate	20	30	60 min
Fluid Mechanics-I	Fluid Properties And Statics, Manometry, Buoyancy	Moderate	20	30	60 min
Fluid Mechanics-II	Kinematics And Dynamics, Bernoulli'S Equation, Continuity Equation	Moderate	20	30	60 min
Fluid Mechanics-III	Flow Through Pipes, Boundary Layer Theory	Moderate	20	30	60 min
Fluid Mechanics-IV	Turbomachinery	Moderate	20	30	60 min
Thermal Science-I	Work And Heat, First Law Of Thermodynamics, Entropy And Availability	Moderate	20	30	60 min
Thermal Science-II	Pure Substances, Rankine Cycle	Moderate	20	30	60 min
Thermal Science-III	I.C. Engines, Brayton Cycle	Moderate	20	30	60 min
Thermal Science-IV	Refrigeration, Psychrometry	Moderate	20	30	60 min
Heat Transfer-I	Conduction	Moderate	20	30	60 min
Heat Transfer-II	Convection	Moderate	20	30	60 min
Heat Transfer-III	State Space Analysis, Controllability, Observability	Moderate	20	30	60 min
Manufacturing Science-I	Engineering Materials, Metal Casting	Moderate	20	30	60 min
Manufacturing Science-II	Forming, Forging, Sheet Metal Operation, Extrusion, Rolling, Deep Drawing	Moderate	20	30	60 min
Manufacturing Science-III	Welding, Joining, Soldering	Moderate	20	30	60 min
Manufacturing Science-IV	Machining, Non Conventional Machining, Jigs And Fixtures	Moderate	20	30	60 min
Manufacturing Science-V	Metrology And Inspection, Comparators, Computer Integrated Manufacturing	Moderate	20	30	60 min
Industrial Engineering-I	Production Planning And Control	Moderate	20	30	60 min
Industrial Engineering-II	Transportation, Linear Programming	Moderate	20	30	60 min
Industrial Engineering-III	Networking, Inventory, Queuing	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'17 Onwards	Extra Edge Test-01	Full Syllabus	Easy	65	100	180 min
2		2nd August'17 Onwards	Extra Edge Test-02	Full Syllabus	Easy	65	100	180 min
3		16th August'17 Onwards	Extra Edge Test-03	Full Syllabus	Easy	65	100	180 min
4		30th August'17 - 13th Sept'17	Self Administered Test-1	Full Syllabus	Easy & Moderate	65	100	180 min
5		13th Sept'17 Onwards	Extra Edge Test-04	Full Syllabus	Easy & Moderate	65	100	180 min
6		27th Sept'17 - 11th Oct'17	Self Administered Test-2	Full Syllabus	Easy & Moderate	65	100	180 min
7		4th Oct'17 Onwards	Extra Edge Test-05	Full Syllabus	Easy & Moderate	65	100	180 min
8		18th Oct'17 - 31st Oct'17	Self Administered Test-3	Full Syllabus	Moderate	65	100	180 min
9		1st Nov'17 Onwards	Extra Edge Test-06	Full Syllabus	Moderate	65	100	180 min
10		15th Nov'17 - 28th Nov'17	Self Administered Test-4	Full Syllabus	Moderate	65	100	180 min
11		29th Nov'17 - 12th Dec'17	Self Administered Test-5	Full Syllabus	Moderate	65	100	180 min
12		13th Dec'17 - 26th Dec'17	Self Administered Test-6	Full Syllabus	Moderate & Hard	65	100	180 min
13		23rd Dec'17 - 29th Dec'17	Monitored Test-01	Full Syllabus	Moderate & Hard	65	100	180 min
14		30th Dec'17 - 5th Jan'17	Monitored Test-02	Full Syllabus	Hard	65	100	180 min
15		6th Jan'17 - 12th Jan'18	Monitored Test-03	Full Syllabus	Hard	65	100	180 min
16		23rd Jan'18 - 29th Jan'18	Monitored Test-04	Full Syllabus	GATE level	65	100	180 min

