

## GATE 2018 Online Test Series - Instrumentation 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	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				Networks-I	Fundamentals	Easy	10	15	30 min
6				Networks-II	Dc Network Theorems & Two Port Networks	Easy	10	15	30 min
7				Networks-III	Inductors And Capacitors, Dc Transients	Easy	10	15	30 min
8				Networks-IV	Ac Circuits	Easy	10	15	30 min
9				Analog Circuits-I	Diode Circuits	Easy	10	15	30 min
10				Analog Circuits-II	Bjt And Mosfet Circuits	Easy	10	15	30 min
11				Analog Circuits-III	Opamp Applications	Easy	10	15	30 min
12				Analog Circuits-IV	Feedback Amplifier, Power Amplifier, 555 Timer	Easy	10	15	30 min
13				Digital Circuits-I	Number System, Boolean Algebra, Logic Gates, Kmap	Easy	10	15	30 min
14				Digital Circuits-II	Combinational And Sequential Circuits, Finite State Machines	Easy	10	15	30 min
15				Digital Circuits-III	Data Converters, Semiconductor Memories	Easy	10	15	30 min
16				Digital Circuits-IV	Micro Processor	Easy	10	15	30 min
17				Signals and Systems-I	Fundamentals, Classification Of Continuous Time & Discrete Time, Ltio Systems	Easy	10	15	30 min
18				Signals and Systems-II	Classification Of Signals Continuous Time & Discrete Time	Easy	10	15	30 min
19				Signals and Systems-III	Continuous Time Fourier Series	Easy	10	15	30 min
20				Signals and Systems-IV	Laplace Transforms, Z Transforms	Easy	10	15	30 min
21				Control Systems-I	Fundamentals, Block Diagram, Signal Flow Graph	Easy	10	15	30 min
22				Control Systems-II	Time Response Analysis	Easy	10	15	30 min
23				Control Systems-III	Frequency Responce Analysis	Easy	10	15	30 min
24				Control Systems-IV	State Space Analysis, Controllability, Observability	Easy	10	15	30 min
25				Communications-I	Amplitude Modulation, Angle Modulation, Band Pass Signals	Easy	10	15	30 min
26				Communications-II	Random Variables, Random Process, Digital Transmission Of Analog Signals	Easy	10	15	30 min
27				Communications-III	Probability, Digital Modulation - Baseband, Pass Band, Pcm	Easy	10	15	30 min
28				Measurements-I	Bridges And Potentiometers, Measurement Of Voltage, Current,	Easy	10	15	30 min
29				Measurements-II	Power, Energy And Power Factor; Instrument Transformers, Digital Voltmeters And Multimeters,	Easy	10	15	30 min
30				Measurements-III	Phase, Time And Frequency Measurement; Oscilloscopes, Error Analysis.	Easy	10	15	30 min
31				Process Control	Basics Of Process Control, Various Kinds Of Controllers	Easy	10	15	30 min
32				Transducers-I	Resistive Transducer, Inductive Transducer, Capacitive Transducers	Easy	10	15	30 min
33				Transducers-II	Piezoelectric Transducer, Measurement Of Velocity, Measurement Of Accelration, Measurement Of Temperature	Easy	10	15	30 min
34				Transducers-III	Flow Measurement, Pressure Measurement	Easy	10	15	30 min
35				Transducers-IV	Measurement Of Force, Ph, Viscosity, Torque	Easy	10	15	30 min
36				Optical Instrumentation	Basics Of Optics, Optical Sources, Optical Detectors, Interferometers	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	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,Complex Analysis	Moderate	20	30	60 min
4				Engineering Mathematics-IV	Laplace Transforms,Differential Equations,Integral Calculus	Moderate	20	30	60 min
5				Networks-I	Fundamentals	Moderate	20	30	60 min
6				Networks-II	Dc Network Theorems & Two Port Networks	Moderate	20	30	60 min
7				Networks-III	Inductors And Capacitors, Dc Transients	Moderate	20	30	60 min
8				Networks-IV	Ac Circuits	Moderate	20	30	60 min
9				Analog Circuits-I	Diode Circuits	Moderate	20	30	60 min
10				Analog Circuits-II	Bjt And Mosfet Circuits	Moderate	20	30	60 min
11				Analog Circuits-III	Opamp Applications	Moderate	20	30	60 min
12				Analog Circuits-IV	Feedback Amplifier, Power Amplifier, 555 Timer	Moderate	20	30	60 min
13				Digital Circuits-I	Number System, Boolean Algebra, Logic Gates, Kmap	Moderate	20	30	60 min
14				Digital Circuits-II	Combinational And Sequential Circuits, Finite State Machines	Moderate	20	30	60 min
15				Digital Circuits-III	Data Converters, Semiconductor Memories	Moderate	20	30	60 min
16				Digital Circuits-IV	Micro Processor	Moderate	20	30	60 min
17				Signals and Systems-I	Fundamentals, Classification Of Continuous Time & Discrete Time, Ltio Systems	Moderate	20	30	60 min
18				Signals and Systems-II	Classification Of Signals Continuous Time & Discrete Time	Moderate	20	30	60 min
19				Signals and Systems-III	Continuous Time Fourier Series	Moderate	20	30	60 min
20				Signals and Systems-IV	Laplace Transforms, Z Transforms	Moderate	20	30	60 min
21				Control Systems-I	Fundamentals, Block Diagram, Signal Flow Graph	Moderate	20	30	60 min
22				Control Systems-II	Time Response Analysis	Moderate	20	30	60 min
23				Control Systems-III	Frequency Responce Analysis	Moderate	20	30	60 min
24				Control Systems-IV	State Space Analysis, Controllability, Observability	Moderate	20	30	60 min
25				Communications-I	Amplitude Modulation, Angle Modulation, Band Pass Signals	Moderate	20	30	60 min
26				Communications-II	Probability, Random Variables, Random Process,Digital Transmission Of Analog Signals	Moderate	20	30	60 min
27				Communications-III	Digital Modulation - Baseband, Pass Band,Pcm	Moderate	20	30	60 min
28				Measurements-I	Bridges And Potentiometers, Measurement Of Voltage, Current,	Moderate	20	30	60 min
29				Measurements-II	Power, Energy And Power Factor; Instrument Transformers, Digital Voltmeters And Multimeters,	Moderate	20	30	60 min
30				Measurements-III	Phase, Time And Frequency Measurement; Oscilloscopes, Error Analysis.	Moderate	20	30	60 min
31				Process Control	Basics Of Process Control, Various Kinds Of Controllers	Moderate	20	30	60 min
32				Transducers-I	Resistive Transducer, Inductive Transducer, Capacitive Transducers	Moderate	20	30	60 min
33				Transducers-II	Piezoelectric Transducer, Measurement Of Velocity, Measurement Of Accelration, Measurement Of Temperature	Moderate	20	30	60 min
34				Transducers-III	Flow Measurement, Pressure Measurement	Moderate	20	30	60 min
35				Transducers-IV	Measurement Of Force, Ph, Viscosity, Torque	Moderate	20	30	60 min
36				Optical Instrumentation	Basics Of Optics, Optical Sources, Optical Detectors, Interferometers	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	<b>Full length Mock Tests</b>	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