

GATE 2018 Online Test Series - Instrumentation 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 | 9th 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 | | | 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 |

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| 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 Temprature | Easy | 10 | 15 | 30 min | |
| 34 | | Transducers-III | Flow Measurement, Pressure Measurement | Easy | 10 | 15 | 30 min | |
| 35 | | Transducers-IV | Measurement Of Force, Ph, Viscocity, 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 | | | 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 | |

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| 10 | Section Test - Partial Syllabus |
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7th June 2017 Onwards

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|-------------------------|---|----------|----|----|--------|
| Analog Circuits-II | Bjt And Mosfet Circuits | Moderate | 20 | 30 | 60 min |
| Analog Circuits-III | Opamp Applications | Moderate | 20 | 30 | 60 min |
| Analog Circuits-IV | Feedback Amplifier, Power Amplifier, 555 Timer | Moderate | 20 | 30 | 60 min |
| Digital Circuits-I | Number System, Boolean Algebra, Logic Gates, Kmap | Moderate | 20 | 30 | 60 min |
| Digital Circuits-II | Combinational And Sequential Circuits, Finite State Machines | Moderate | 20 | 30 | 60 min |
| Digital Circuits-III | Data Converters, Semiconductor Memories | Moderate | 20 | 30 | 60 min |
| Digital Circuits-IV | Micro Processor | Moderate | 20 | 30 | 60 min |
| Signals and Systems-I | Fundamentals, Classification Of Continuous Time & Discrete Time, Ltio Systems | Moderate | 20 | 30 | 60 min |
| Signals and Systems-II | Classification Of Signals Continuous Time & Discrete Time | Moderate | 20 | 30 | 60 min |
| Signals and Systems-III | Continuous Time Fourier Series | Moderate | 20 | 30 | 60 min |
| Signals and Systems-IV | Laplace Transforms, Z Transforms | Moderate | 20 | 30 | 60 min |
| Control Systems-I | Fundamentals, Block Diagram, Signal Flow Graph | Moderate | 20 | 30 | 60 min |
| Control Systems-II | Time Response Analysis | Moderate | 20 | 30 | 60 min |
| Control Systems-III | Frequency Responce Analysis | Moderate | 20 | 30 | 60 min |
| Control Systems-IV | State Space Analysis, Controllability, Observability | Moderate | 20 | 30 | 60 min |
| Communications-I | Amplitude Modulation, Angle Modulation, Band Pass Signals | Moderate | 20 | 30 | 60 min |
| Communications-II | Probability, Random Variables, Random Process, Digital Transmission Of Analog Signals | Moderate | 20 | 30 | 60 min |
| Communications-III | Digital Modulation - Baseband, Pass Band, Pcm | Moderate | 20 | 30 | 60 min |
| Measurements-I | State Space Analysis, Controllability, Observability | Moderate | 20 | 30 | 60 min |
| Measurements-II | Power, Energy And Power Factor; Instrument Transformers, Digital Voltmeters And Multimeters, | Moderate | 20 | 30 | 60 min |
| Measurements-III | Phase, Time And Frequency Measurement; Oscilloscopes, Error Analysis. | Moderate | 20 | 30 | 60 min |
| Process Control | Basics Of Process Control, Various Kinds Of Controllers | Moderate | 20 | 30 | 60 min |
| Transducers-I | Resistive Transducer, Inductive Transducer, Capacitive Transducers | Moderate | 20 | 30 | 60 min |
| Transducers-II | Piezoelectric Transducer, Measurement Of Velocity, Measurement Of Accelration, Measurement Of Temperature | Moderate | 20 | 30 | 60 min |

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|----|-------------------------------|------------------------|--------------------------|---|-----------------|------|-----|---------|
| 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 | | Full length Mock Tests | 19th July'17 Onwards | Extra Edge Test-01 | Full Syllabus | Easy | 65 | 100 |
| 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 |

