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India's Best Institute for IES, GATE & PSUs

SSC-JE

Online Test Series for **CE, ME, EE**

COMPUTER BASED TEST (PAPER-I)

Test Series commencing from **1st July 2019**

Total 40 Tests

- **4000** quality questions
- As per standard and pattern of SSC-JE
- Both technical and non-technical syllabus covered
- Detailed solutions
- Performance analysis report

Streams :

- Civil Engineering
- Mechanical Engineering
- Electrical Engineering

Test Structure :

16 Subjectwise Tests (8 Technical Tests + 8 Non Technical Tests)	16 Mixed Subject Tests (8 Technical Tests + 8 Non Technical Tests)	8 Full Syllabus Tests (Mock Test : Exactly on pattern of SSC-JE)
Total Questions : 50/Test	Total Questions : 100/Test	Total Questions : 200/Test
Max Marks : 50	Max Marks : 100	Max Marks : 200
Duration: 30 min	Duration: 60 min	Duration: 120 min
Negative Marking : 0.25 Marks	Negative Marking : 0.25 Marks	Negative Marking : 0.25 Marks
800 Questions	1600 Questions	1600 Questions
Total : 4000 Questions		

Fee: ~~Rs. 1060~~ + GST → **Rs. 848 + GST**

Discounted fee valid till 15th of August, 2019

Admission Queries : 011-45124612
Technical Queries : 9818098817

**Admission Open
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Scroll Down for
Detailed Schedule





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Detailed Schedule

Online Test Series for **SSC-JE** **CIVIL ENGINEERING**

Test No.	Activation Date	Subject	Marks/Time
1.		History & Culture + Geography	50 M /30 min
2.		Indian Polity + Indian Economy	50 M /30 min
3.		Current Affairs + General Knowledge	50 M /30 min
4.		General Science & Technology + Environment	50 M /30 min
5.		Analogies or Similarity + Blood relationship + Symbols and Notations + Classification	50 M /30 min
6.		Directions and Distance Test + Series + Coding and Decoding + Word Formation	50 M /30 min
7.		Completion of Figure + Ranking Arrangement + Find the Missing Number + Arrangement of Words in Logical Order + Cubes and Dice	50 M /30 min
8.		Logical Venn Diagram + Paper Cutting, Folding and Mirror images + Matrix reasoning + Syllogism + Statement and Conclusions	50 M /30 min
9.	1 st July, 2019	<p>Building Materials : Physical and Chemical properties, Classification, Standard Tests, Uses and manufacture/quarrying of materials e.g. building stones, silicate based materials, Cement (Portland), Asbestos products, Timber and Wood based Products, Laminates, bituminous materials, Paints, Varnishes.</p> <p>Concrete Technology : Properties, Advantages and uses of concrete, cement aggregates, importance of water quality, water cement ratio, workability, mix design, storage, batching, mixing, placement, compaction, finishing and curing of concrete, quality control of concrete, hot weather and cold weather concreting, repair and maintenance of concrete structures.</p> <p>Estimating, Costing and Valuation : Estimate, Glossary of technical terms, Analysis of rates, Methods and unit of measurement, Items of work – Earthwork, Brick work (Modular & Traditional bricks), RCC work, Shuttering, Timber work, Painting, Flooring, Plastering. Boundary wall, Brick building, Water Tank, Septic tank, Bar bending schedule. Centre line method, Mid-section formula, Trapezoidal formula, Simpson's rule. Cost estimate of Septic tank, flexible pavements, Tube well, isolated and combined footings, Steel Truss, Piles and pile-caps. Valuation – Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolescence, methods of valuation.</p>	50 M /30 min
10.		<p>Soil Mechanics : Origin of soil, phase diagram, Definitions- void ratio, porosity, degree of saturation, water content, specific gravity of soil grains, unit weights, density index and interrelationship of different parameters, Grain size distribution curves and their uses. Index properties of soils, Atterberg's limits, IS soil classification and plasticity chart. Permeability of soil, coefficient of permeability, determination of coefficient of permeability, Unconfined and confined aquifers, effective stress, quick sand, consolidation of soils, Principles of consolidation, degree of consolidation, pre-consolidation pressure, normally consolidated soil, e-log p curve, computation of ultimate settlement. Shear strength of soils, direct shear test, Vane shear test, Triaxial test. Soil compaction, Laboratory compaction test, Maximum dry density and optimum moisture content, earth pressure theories, active and passive earth pressures, Bearing capacity of soils, plate load test, standard penetration test.</p>	50 M /30 min
11.		<p>Theory of structures : Elasticity constants, types of beams - determinate and indeterminate, bending moment and shear force diagrams of simply supported, cantilever and over hanging beams. Moment of area and moment of inertia for rectangular & circular sections, bending moment and shear stress for tee, channel and compound sections, chimneys, dams and retaining walls, eccentric loads, slope deflection of simply supported and cantilever beams, critical load and columns, Torsion of circular section.</p>	50 M /30 min
12.		<p>Irrigation Engineering : Definition, Necessity, Benefits, Ill effects of irrigation, types and methods of irrigation. Hydrology – Measurement of rainfall, run off coefficient, rain gauge, losses from precipitation – evaporation, infiltration, etc. Water requirement of crops, duty, delta and base period, Kharif and Rabi Crops, Command area, Time factor, Crop ratio, Overlap allowance, Irrigation efficiencies. Different type of canals, types of canal irrigation, loss of water in canals. Canal lining – types and advantages. Shallow and deep to wells, yield from a well. Weir and barrage, Failure of weirs and permeable foundation, Slit and Scour, Kennedy's theory of critical velocity. Lacey's theory of uniform flow. Definition of flood, causes and effects, methods of flood control, water logging, preventive measures. Land reclamation, Characteristics of affecting fertility of soils, purposes, methods, description of land and reclamation processes. Major irrigation projects in India.</p>	50 M /30 min

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CIVIL ENGINEERING

Test No.	Activation Date	Subject	Marks/Time
13.	1 st July, 2019	<p>Transportation Engineering : Highway Engineering – cross sectional elements, geometric design, types of pavements, pavement materials – aggregates and bitumen, different tests, Design of flexible and rigid pavements – Water Bound Macadam (WBM) and Wet Mix Macadam (WMM), Gravel Road, Bituminous construction, Rigid pavement joint, pavement maintenance, Highway drainage. Railway Engineering – Components of permanent way – sleepers, ballast, fixtures and fastening, track geometry, points and crossings, track junction, stations and yards. Traffic Engineering – Different traffic survey, speed-flow-density and their interrelationships, intersections and interchanges, traffic signals, traffic operation, traffic signs and markings, road safety.</p> <p>Surveying : Principles of surveying, measurement of distance, chain surveying, working of prismatic compass, compass traversing, bearings, local attraction, plane table surveying, theodolite traversing, adjustment of theodolite, Levelling, Definition of terms used in levelling, contouring, curvature and refraction corrections, temporary and permanent adjustments of dumpy level, methods of contouring, uses of contour map, tachometric survey, curve setting, earth work calculation, advanced surveying equipment.</p>	50 M /30 min
14.		<p>RCC Design : RCC beams-flexural strength, shear strength, bond strength, design of singly reinforced and doubly reinforced beams, cantilever beams. T-beams, lintels. One way and two way slabs, isolated footings. Reinforced brick works, columns, staircases, retaining walls, water tanks (RCC design questions may be based on both Limit State and Working Stress methods).</p> <p>Steel Design : Steel design and construction of steel columns, beams roof trusses plate girders.</p>	50 M /30 min
15.		<p>Environmental Engineering : Quality of water, source of water supply, purification of water, distribution of water, need of sanitation, sewerage systems, circular sewer, oval sewer, sewer appurtenances, sewage treatments. Surface water drainage. Solid waste management – types, effects, engineered management system. Air pollution – pollutants, causes, effects, control. Noise pollution – causes, health effects, control.</p>	50 M /30 min
16.		<p>Hydraulics : Fluid properties, hydrostatics, measurements of flow, Bernoulli's theorem and its application, flow through pipes, flow in open channels, weirs, flumes, spillways, pumps and turbines.</p>	50 M /30 min
17.		History & culture + Analogies or Similarity + Blood relationship	100 M /60 min
18.	Geography + Symbols and Notations, Classification	100 M /60 min	
19.	Indian Polity + Directions and Distance Test + Series	100 M /60 min	
20.	Indian Economy + Coding and Decoding + Word Formation	100 M /60 min	
21.	15 th July, 2019	<p>Building Materials : Physical and Chemical properties, Classification, Standard Tests, Uses and manufacture/quarrying of materials e.g. building stones, silicate based materials, Cement (Portland), Asbestos products, Timber and Wood based Products, Laminates, bituminous materials, Paints, Varnishes.</p> <p>Soil Mechanics-1 : Soil compaction, Laboratory compaction test, Maximum dry density and optimum moisture content, earth pressure theories, active and passive earth pressures, Bearing capacity of soils, plate load test, standard penetration test.</p>	100 M /60 min
22.		<p>Steel Design : Steel design and construction of steel columns, beams roof trusses plate girders.</p> <p>Irrigation Engineering : Definition, Necessity, Benefits, III effects of irrigation, types and methods of irrigation. Water requirement of crops, duty, delta and base period, Kharif and Rabi Crops, Command area, Time factor, Crop ratio, Overlap allowance, Irrigation efficiencies. Different type of canals, types of canal irrigation, loss of water in canals. Canal lining – types and advantages. Shallow and deep to wells, yield from a well. Weir and barrage, Failure of weirs and permeable foundation, Slit and Scour, Kennedy's theory of critical velocity. Lacey's theory of uniform flow. Definition of flood, causes and effects, methods of flood control, water logging, preventive measures. Land reclamation, Characteristics of affecting fertility of soils, purposes, methods, description of land and reclamation processes. Major irrigation projects in India.</p>	100 M /60 min
23.		<p>RCC Design : RCC beams-flexural strength, shear strength, bond strength, design of singly reinforced and doubly reinforced beams, cantilever beams. T-beams, lintels. One way and two way slabs, isolated footings. Reinforced brick works, columns, staircases, retaining walls, water tanks (RCC design questions may be based on both Limit State and Working Stress methods).</p> <p>Hydrology : Hydrology – Measurement of rainfall, run off coefficient, rain gauge, losses from precipitation – evaporation, infiltration, etc.</p>	100 M /60 min
24.		<p>Estimating, Costing and Valuation : Estimate, Glossary of technical terms, Analysis of rates, Methods and unit of measurement, Items of work – Earthwork, Brick work (Modular & Traditional bricks), RCC work, Shuttering, Timber work, Painting, Flooring, Plastering. Boundary wall, Brick building, Water Tank, Septic tank, Bar bending schedule. Centre line method, Mid-section formula, Trapezoidal formula, Simpson's rule. Cost estimate of Septic tank, flexible pavements, Tube well, isolated and combined footings, Steel Truss, Piles and pile-caps. Valuation – Value and cost, scrap value, salvage value, assessed value, sinking fund, depreciation and obsolescence, methods of valuation.</p> <p>Hydraulics-1: Fluid properties, hydrostatics, measurements of flow, Bernoulli's theorem and its application, flow through pipes.</p>	100 M /60 min

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Test No.	Activation Date	Subject	Marks/Time
25.		Current Affairs + Completion of Figure + Ranking Arrangement	100 M /60 min
26.		General Knowledge + Find the Missing Number + Arrangement of Words in Logical Order + Cubes and Dice	100 M /60 min
27.		General Science & Technology+ Logical Venn Diagram + Paper Cutting, Folding and Mirror images	100 M /60 min
28.		Environment + Matrix reasoning + Syllogism + Statement and Conclusions	100 M /60 min
29.		Theory of structures : Elasticity constants, types of beams - determinate and indeterminate, bending moment and shear force diagrams of simply supported, cantilever and over hanging beams. Moment of area and moment of inertia for rectangular & circular sections, bending moment and shear stress for tee, channel and compound sections, chimneys, dams and retaining walls, eccentric loads, slope deflection of simply supported and cantilever beams, critical load and columns, Torsion of circular section. Hydraulics-2 : Flow in open channels, weirs, flumes, spillways, pumps and turbines.	100 M /60 min
30.	22 nd July, 2019	Environmental Engineering-1 : Quality of water, source of water supply, purification of water, distribution of water. Air pollution – pollutants, causes, effects, control. Noise pollution – causes, health effects, control. Concrete Technology : Properties, Advantages and uses of concrete, cement aggregates, importance of water quality, water cement ratio, workability, mix design, storage, batching, mixing, placement, compaction, finishing and curing of concrete, quality control of concrete, hot weather and cold weather concreting, repair and maintenance of concrete structures.	100 M /60 min
31.		Soil Mechanics-2 : Origin of soil, phase diagram, Definitions- void ratio, porosity, degree of saturation, water content, specific gravity of soil grains, unit weights, density index and interrelationship of different parameters, Grain size distribution curves and their uses. Index properties of soils, Atterberg's limits, IS soil classification and plasticity chart. Permeability of soil, coefficient of permeability, determination of coefficient of permeability, Unconfined and confined aquifers, effective stress, quick sand, consolidation of soils, Principles of consolidation, degree of consolidation, pre-consolidation pressure, normally consolidated soil, e-log p curve, computation of ultimate settlement. Shear strength of soils, direct shear test, Vane shear test, Triaxial test. Surveying : Principles of surveying, measurement of distance, chain surveying, working of prismatic compass, compass traversing, bearings, local attraction, plane table surveying, theodolite traversing, adjustment of theodolite, Levelling, Definition of terms used in levelling, contouring, curvature and refraction corrections, temporary and permanent adjustments of dumpy level, methods of contouring, uses of contour map, tachometric survey, curve setting, earth work calculation, advanced surveying equipment.	100 M /60 min
32.		Environmental Engineering-2 : Need of sanitation, sewerage systems, circular sewer, oval sewer, sewer appurtenances, sewage treatments. Surface water drainage. Solid waste management – types, effects, engineered management system. Transportation Engineering : Highway Engineering – cross sectional elements, geometric design, types of pavements, pavement materials – aggregates and bitumen, different tests, Design of flexible and rigid pavements – Water Bound Macadam (WBM) and Wet Mix Macadam (WMM), Gravel Road, Bituminous construction, Rigid pavement joint, pavement maintenance, Highway drainage. Railway Engineering – Components of permanent way – sleepers, ballast, fixtures and fastening, track geometry, points and crossings, track junction, stations and yards. Traffic Engineering – Different traffic survey, speed-flow-density and their interrelationships, intersections and interchanges, traffic signals, traffic operation, traffic signs and markings, road safety.	100 M /60 min

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Test No.	Activation Date	Subject	Marks/Time
33.	5th Aug, 2019	Full Syllabus Test 1	200 M /120 min
34.	5th Aug, 2019	Full Syllabus Test 2	200 M /120 min
35.	5th Aug, 2019	Full Syllabus Test 3	200 M /120 min
36.	5th Aug, 2019	Full Syllabus Test 4	200 M /120 min
37.	19th Aug, 2019	Full Syllabus Test 5	200 M /120 min
38.	19th Aug, 2019	Full Syllabus Test 6	200 M /120 min
39.	19th Aug, 2019	Full Syllabus Test 7	200 M /120 min
40.	19th Aug, 2019	Full Syllabus Test 8	200 M /120 min

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MECHANICAL ENGG.

Test No.	Activation Date	Subject	Marks/Time
1.	1 st July, 2019	History & Culture + Geography	50 M /30 min
2.		Indian Polity + Indian Economy	50 M /30 min
3.		Current Affairs + General Knowledge	50 M /30 min
4.		General Science & Technology + Environment	50 M /30 min
5.		Analogies or Similarity + Blood relationship + Symbols and Notations + Classification	50 M /30 min
6.		Directions and Distance Test + Series + Coding and Decoding + Word Formation	50 M /30 min
7.		Completion of Figure + Ranking Arrangement + Find the Missing Number + Arrangement of Words in Logical Order + Cubes and Dice	50 M /30 min
8.		Logical Venn Diagram + Paper Cutting, Folding and Mirror images + Matrix reasoning + Syllogism + Statement and Conclusions	50 M /30 min
9.		Theory of Machines: Concept of simple machine, Four bar linkage and link motion, Flywheels and fluctuation of energy, Cams, Governors – Principles and classification.	50 M /30 min
10.		Strength of Materials: Concepts of stress and strain, Elastic limit and elastic constants, Bending moments and shear force diagram, Stress in composite bars, Torsion of circular shafts, Buckling of columns – Euler's and Rankin's theories, Thin walled pressure vessels	50 M /30 min
11.		Thermodynamics : P-v & P-T diagrams of pure substance like H ₂ O, Introduction of steam table with respect to steam generation process; definition of saturation, wet & superheated status, Definition of dryness fraction of steam, degree of superheat of steam h-s chart of steam (Mollier's Chart) . First Law of Thermodynamics : Definition of stored energy & internal energy, 1 st Law of Thermodynamics of cyclic process, Non Flow Energy Equation, Flow Energy & Definition of Enthalpy, Conditions for Steady State Steady Flow; Steady State Steady Flow Energy Equation . Second Law of Thermodynamics : Definition of Sink, Source Reservoir of Heat, Heat Engine, Kelvin – Planck & Clausius Statements of 2 nd Law of Thermodynamics, Absolute or Thermodynamic Scale of temperature, Clausius Integral, Entropy, Entropy change calculation of ideal gas processes Carnot Cycle & Carnot Efficiency, PMM-2; definition & its impossibility	50 M /30 min
12.		Fluid Mechanics & Machinery Properties & Classification of Fluid : Properties & Classification of Fluid: Ideal & real fluids, Newton's law of viscosity, Newtonian and Non-Newtonian fluids, compressible and incompressible fluids Fluid Statics : Pressure at a point, Measurement of Fluid Pressure: Manometers, U-tube, Inclined tube Fluid Kinematics : Stream line, laminar & turbulent flow, external & internal flow, continuity equation Dynamics of ideal fluids : Bernoulli's equation, Total head; Velocity head; Pressure head; Application of Bernoulli's equation Measurement of Flow rate Basic Principles : Venturimeter, Pilot tube, Orifice meter Hydraulic Turbines : Classifications, Principles Centrifugal Pumps : Classifications, Principles, Performance	50 M /30 min
13.		Production Engineering : Welding – Arc Welding, Gas Welding, Resistance Welding, Special Welding Techniques i.e. TIG, MIG, etc (Brazing & Soldering), Welding Defects & Testing; NDT, Foundry & Casting – methods, defects, different casting processes, Forging, Extrusion, etc, Metal cutting principles, cutting tools, Basic Principles of machining with (i) Lathe (ii) Milling (iii) Drilling (iv) Shaping (v) Grinding, Machines, tools & manufacturing processes	50 M /30 min
14.		Internal Combustion Engines : Otto cycle; plot on P-V, T-S Planes; Thermal Efficiency, Diesel Cycle; Plot on P-V, T-S planes; Thermal efficiency IC Engine Performance, IC Engine Combustion, IC Engine Cooling & Lubrication Power Plant : Rankine cycle of steam: Simple Rankine cycle plot on P-V, T-S, h-s planes, Rankine cycle efficiency with & without pump work, Boilers; Classification; Specification; Fittings & Accessories: Fire Tube & Water Tube Boilers, Air Compressors & their cycles; Nozzles & Steam Turbines	50 M /30 min
15.		Material Science : Classification of Steels : mild steel & alloy steel, Heat treatment of steel Engineering Mechanics: Equilibrium of Forces, Law of motion, Friction	50 M /30 min
16.		Refrigeration & Air-conditioning: Heat Pump & Refrigerator; Thermal Efficiency of Heat Engines & co-efficient of performance of Refrigerators, Refrigeration cycles; Principle of a Refrigeration Plant; Machine Design : Power transmission by belts – V-belts and Flat belts, Clutches – Plate and Conical clutch, Gears – Type of gears, gear profile and gear ratio calculation, Riveted joint, Bearings, Friction in collars and pivots	50 M /30 min

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MECHANICAL ENGG.

Test No.	Activation Date	Subject	Marks/Time
17.	15 nd July, 2019	History & culture + Analogies or Similarity + Blood relationship	100 M /60 min
18.		Geography + Symbols and Notations, Classification	100 M /60 min
19.		Indian Polity + Directions and Distance Test + Series	100 M /60 min
20.		Indian Economy + Coding and Decoding + Word Formation	100 M /60 min
21.		<p>Theory of Machines + Fluid Mechanics & Machinery Properties & Classification of Fluid:</p> <p>Theory of Machines - Concept of simple machine, Four bar linkage and link motion,</p> <p>Fluid Mechanics - Properties & Classification of Fluid: Ideal & real fluids, Newton's law of viscosity, Newtonian and Non-Newtonian fluids, compressible and incompressible fluids</p> <p>Fluid Statics: Pressure at a point</p> <p>Measurement of Fluid Pressure: Manometers, U-tube, Inclined tube</p> <p>Fluid Kinematics: Stream line, laminar & turbulent flow, external & internal flow, continuity equation</p> <p>Centrifugal Pumps: Classifications, Principles, Performance</p>	100 M /60 min
22.		<p>Theory of Machines + Fluid Mechanics & Machinery Properties & Classification of Fluid:</p> <p>Theory of Machines - Flywheels and fluctuation of energy, Cams, Governors – Principles and classification,</p> <p>Fluid Mechanics - Dynamics of ideal fluids: Bernoulli's equation, Total head; Velocity head; Pressure head; Application of Bernoulli's equation</p> <p>Measurement of Flow rate Basic Principles: Venturimeter, Pilot tube, Orifice meter Hydraulic Turbines: Classifications, Principles</p>	100 M /60 min
23.		<p>Strength of Materials + Refrigeration & Air Conditioning + Machine Design</p> <p>Machine Design - Power transmission by belts – V-belts and Flat belts, Clutches – Plate and Conical clutch,</p> <p>Strength of Materials - Stress in composite bars, Concepts of stress and strain, Elastic limit and elastic constants, Bending moments and shear force diagram</p> <p>Refrigeration & Air-conditioning: Heat Pump & Refrigerator; Thermal Efficiency of Heat Engines & coefficient of performance of Refrigerators, Refrigeration cycles; Principle of a Refrigeration Plant;</p>	100 M /60 min
24.		<p>Strength of Materials + Refrigeration & Air-conditioning + Machine Design</p> <p>Machine Design: Gears – Type of gears, gear profile and gear ratio calculation, Riveted joint, Bearings, Friction in collars and pivots</p> <p>Strength of Materials: Torsion of circular shafts, Buckling of columns – Euler's and Rankin's theories, Thin walled pressure vessels</p> <p>Refrigeration & Air-conditioning: Heat Pump & Refrigerator; Thermal Efficiency of Heat Engines & coefficient of performance of Refrigerators, Refrigeration cycles; Principle of a Refrigeration Plant;</p>	100 M /60 min
25.		Current Affairs + Completion of Figure + Ranking Arrangement	100 M /60 min
26.		General Knowledge + Find the Missing Number + Arrangement of Words in Logical Order + Cubes and Dice	100 M /60 min
27.	General Science & Technology+ Logical Venn Diagram + Paper Cutting, Folding and Mirror images	100 M /60 min	
28.	Environment + Matrix reasoning + Syllogism + Statement and Conclusions	100 M /60 min	
29.	22 nd July, 2019	<p>Thermodynamics + Power Plant + I.C Engines</p> <p>Thermodynamics - First Law of Thermodynamics : Definition of stored energy & internal energy, 1st Law of Thermodynamics of cyclic process, Non Flow Energy Equation, Flow Energy & Definition of Enthalpy, Conditions for Steady State Steady Flow; Steady State Steady Flow Energy Equation</p> <p>Power Plant - Rankine cycle of steam: Simple Rankine cycle plot on P-V, T-S, h-s planes, Rankine cycle efficiency with & without pump work</p> <p>Internal Combustion Engines - Otto cycle; plot on P-V, T-S Planes; Thermal Efficiency, Diesel Cycle; Plot on P-V, T-S planes; Thermal efficiency IC Engine Performance</p>	100 M /60 min

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Test No.	Activation Date	Subject	Marks/Time
30.	22 nd July, 2019	Thermodynamics + Power Plant + Internal Combustion Engines Thermodynamics : P-v & P-T diagrams of pure substance like H ₂ O, Introduction of steam table with respect to steam generation process; definition of saturation, wet & superheated status, Definition of dryness fraction of steam, degree of superheat of steam H-s chart of steam (Mollier's Chart) . Second Law of Thermodynamics : Definition of Sink, Source Reservoir of Heat, Heat Engine, Kelvin – Planck & Clausius Statements of 2nd Law of Thermodynamics, Absolute or Thermodynamic Scale of temperature, Clausius Integral, Entropy, Entropy change calculation of ideal gas processes Carnot Cycle & Carnot Efficiency, PMM-2; definition & its impossibility Internal Combustion Engines : IC Engine Combustion, IC Engine Cooling & Lubrication Power Plant : Boilers; Classification; Specification; Fittings & Accessories: Fire Tube & Water Tube Boilers Air Compressors & their cycles; Nozzles & Steam Turbines	100 M /60 min
31.		Production Engineering + Material Science + Engineering Mechanics Production : Welding – Arc Welding, Gas Welding, Resistance Welding, Special Welding Techniques i.e. TIG, MIG, etc (Brazing & Soldering), Welding Defects & Testing; NDT, Foundry & Casting – methods, defects, different casting processes, Forging, Extrusion, etc, Engineering Mechanics : Friction Material Science : Classification of Steels: mild steel & alloy steel,	100 M /60 min
32.		Production Engineering + Material Science + Engineering Mechanics Production : Metal cutting principles, cutting tools, Basic Principles of machining with (i) Lathe (ii) Milling (iii) Drilling (iv) Shaping (v) Grinding, Machines, tools & manufacturing processes Engineering Mechanics : Equilibrium of Forces, Law of motion, Friction Material Science : Heat treatment of steel	100 M /60 min
33.	5 th Aug, 2019	Full Syllabus Test 1	200 M /120 min
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35.	5 th Aug, 2019	Full Syllabus Test 3	200 M /120 min
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2.		Indian Polity + Indian Economy	50 M /30 min
3.		Current Affairs + General Knowledge	50 M /30 min
4.		General Science & Technology + Environment	50 M /30 min
5.		Analogies or Similarity + Blood relationship + Symbols and Notations + Classification	50 M /30 min
6.		Directions and Distance Test + Series + Coding and Decoding + Word Formation	50 M /30 min
7.		Completion of Figure + Ranking Arrangement + Find the Missing Number + Arrangement of Words in Logical Order + Cubes and Dice	50 M /30 min
8.		Logical Venn Diagram + Paper Cutting, Folding and Mirror images + Matrix reasoning + Syllogism + Statement and Conclusions	50 M /30 min
9.		Electrical Circuits : Concepts of resistance, inductance, capacitance, and various factors affecting them. Concepts of current, voltage, power, energy and their units. Kirchoff's law, Simple Circuit solution using network theorems. Instantaneous, peak, R.M.S. and average values of alternating waves, Representation of sinusoidal wave form, simple series and parallel AC Circuits consisting of R, L and C, Resonance, Tank Circuit. Poly Phase system – star and delta connection, 3-phase power, DC and sinusoidal response of R-L and R-C circuit.	50 M /30 min
10.		Magnetic Circuit : Concepts of flux, mmf, reluctance, Different kinds of magnetic materials, Magnetic calculations for conductors of different configuration e.g. straight, circular, solenoidal, etc. Electromagnetic induction, self and mutual induction.	50 M /30 min
11.		Measurement and Measuring Instruments : Measurement of power (1 phase and 3-phase, both active and reactive) and energy, 2 wattmeter method of 3-phase power measurement. Measurement of frequency and phase angle. Ammeter and voltmeter (both moving coil and moving iron type), extension of range wattmeter, Multimeters, Megger, Energy meter AC Bridges. Use of CRO, Signal Generator, CT, PT and their uses. Earth fault detection.	50 M /30 min
12.		Electrical Machines-1 : 1 phase and 3 phase transformers – Construction, Principles of operation, equivalent circuit, voltage regulation, O.C. and S.C. Tests, Losses and efficiency. Effect of voltage, frequency and wave form on losses. Parallel operation of 1 phase /3 phase transformers. Auto transformers. 3 phase induction motors, rotating magnetic field, principle of operation, equivalent circuit, torque-speed characteristics, starting and speed control of 3 phase induction motors. Methods of braking, effect of voltage and frequency variation on torque speed characteristics. Fractional Kilowatt Motors and Single Phase Induction Motors: Characteristics and applications.	50 M /30 min
13.		Electrical Machines-2 : D.C. Machine – Construction, Basic Principles of D.C. motors and generators, their characteristics, speed control and starting of D.C. Motors. Method of braking motor, Losses and efficiency of D.C. Machines. Generation of 3-phase e.m.f. armature reaction, voltage regulation, parallel operation of two alternators, synchronizing, control of active and reactive power. Starting and applications of synchronous motors.	50 M /30 min
14.		Power Systems : Different types of power stations, Load factor, diversity factor, demand factor, cost of generation, inter-connection of power stations. Power factor improvement, various types of tariffs, types of faults, short circuit current for symmetrical faults. Switchgears – rating of circuit breakers, Principles of arc extinction by oil and air, H.R.C. Fuses, Protection against earth leakage/over current, etc. Buchholz relay, Merz-Price system of protection of generators & transformers, protection of feeders and bus bars. Lightning arresters, various transmission and distribution system, comparison of conductor materials, efficiency of different system. Cable – Different type of cables, cable rating and derating factor.	50 M /30 min
15.		Estimation and Costing : Estimation of lighting scheme, electric installation of machines and relevant IE rules. Earthing practices and IE Rules. Utilization of Electrical Energy : Illumination, Electric heating, Electric welding, Electroplating, Electric drives and motors.	50 M /30 min
16.		Basic Electronics : Working of various electronic devices e.g. P N Junction diodes, Transistors (NPN and PNP type), BJT and JFET. Simple circuits using these devices.	50 M /30 min

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Test No.	Activation Date	Subject	Marks/Time	
17.	15 th July, 2019	History & culture + Analogies or Similarity + Blood relationship	100 M /60 min	
18.		Geography + Symbols and Notations, Classification	100 M /60 min	
19.		Indian Polity + Directions and Distance Test + Series	100 M /60 min	
20.		Indian Economy + Coding and Decoding + Word Formation	100 M /60 min	
21.		Electrical Circuits-1: Concepts of resistance, inductance, capacitance, and various factors affecting them. Concepts of current, voltage, power, energy and their units, Kirchoff's law, Simple Circuit solution using network theorems. Magnetic Circuits-1: Concepts of flux, mmf, reluctance, Different kinds of magnetic materials, Magnetic calculations.	100 M /60 min	
22.		Electrical Circuits-2: Instantaneous, peak, R.M.S. and average values of alternating waves, Representation of sinusoidal wave form, simple series and parallel AC Circuits consisting of R, L and C, Resonance, Tank Circuit. Poly Phase system – star and delta connection, 3-phase power, DC and sinusoidal response of R-Land R-C circuit. Magnetic Circuits-2: Magnetic calculations for conductors of different configuration e.g. straight, circular, solenoidal, etc. Electromagnetic induction, self and mutual induction.	100 M /60 min	
23.		Measurement and Measuring Instruments-1: Measurement of power (1 phase and 3-phase, both active & reactive) and energy, 2 wattmeter method of 3-phase power measurement. Measurement of frequency and phase angle. Basic Electronics-1: Working of various electronic devices e.g. PN Junction diodes, Transistors (NPN and PNP type).	100 M /60 min	
24.		Measurement and Measuring Instruments-2 : Ammeter and voltmeter (both moving oil and moving iron type), extension of range wattmeter, Multimeters, Megger, Energy meter AC Bridges. Use of CRO, Signal Generator, CT, PT and their uses. Earth fault detection. Basic Electronics-2: BJT and JFET. Simple circuits using these devices.	100 M /60 min	
25.		22 nd July, 2019	Current Affairs + Completion of Figure + Ranking Arrangement	100 M /60 min
26.			General Knowledge + Find the Missing Number + Arrangement of Words in Logical Order + Cubes and Dice	100 M /60 min
27.	General Science & Technology+ Logical Venn Diagram + Paper Cutting, Folding and Mirror images		100 M /60 min	
28.	Environment + Matrix reasoning + Syllogism + Statement and Conclusions		100 M /60 min	
29.	Electrical Machines (I)-1: 1 phase and 3 phase transformers – Construction, Principles of operation, equivalent circuit, voltage regulation, O.C. and S.C. Tests, Losses and efficiency. Effect of voltage, frequency and wave form on losses. Parallel operation of 1 phase/3 phase transformers. Auto transformers. Electrical Machines (II)-1: D.C. Machine – Construction, Basic Principles of D.C. motors and generators, their characteristics, speed control and starting of D.C. Motors. Method of braking motor, Losses and efficiency of D.C. Machines.		100 M /60 min	
30.	Electrical Machines (I)-2: 3 phase induction motors, rotating magnetic field, principle of operation, equivalent circuit, torque-speed characteristics, starting and speed control of 3 phase induction motors. Methods of braking, effect of voltage and frequency variation on torque speed characteristics. Fractional Kilowatt Motors and Single Phase Induction Motors: Characteristics and applications. Electrical Machines (II)-2: Generation of 3-phase e.m.f. armature reaction, voltage regulation, parallel operation of two alternators, synchronizing, control of active and reactive power. Starting and applications of synchronous motors.		100 M /60 min	
31.	Power Systems-1: Different types of power stations, Load factor, diversity factor, demand factor, cost of generation, inter-connection of power stations. Power factor improvement, various types of tariffs, types of faults, short circuit current for symmetrical faults, Lightning arresters, various transmission and distribution system, comparison of conductor materials, efficiency of different system. Cable – Different type of cables, cable rating and derating factor. Estimation & Costing : Estimation of lighting scheme, electric installation of machines and relevant IE rules. Earthing practices and IE Rules.		100 M /60 min	
32.	Power Systems-2: Switchgears – rating of circuit breakers, Principles of arc extinction by oil and air, H.R.C. Fuses, Protection against earth leakage/over current, etc. Buchholtz relay, Merz-Price system of protection of generators & transformers, protection of feeders and bus bars. Utilization of Electrical Energy: Illumination, Electric heating, Electric welding, Electroplating, Electric drives and motors.		100 M /60 min	

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Test No.	Activation Date	Subject	Marks/Time
33.	5th Aug, 2019	Full Syllabus Test 1	200 M /120 min
34.	5th Aug, 2019	Full Syllabus Test 2	200 M /120 min
35.	5th Aug, 2019	Full Syllabus Test 3	200 M /120 min
36.	5th Aug, 2019	Full Syllabus Test 4	200 M /120 min
37.	19th Aug, 2019	Full Syllabus Test 5	200 M /120 min
38.	19th Aug, 2019	Full Syllabus Test 6	200 M /120 min
39.	19th Aug, 2019	Full Syllabus Test 7	200 M /120 min
40.	19th Aug, 2019	Full Syllabus Test 8	200 M /120 min

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