



IES MASTER

Institute for Engineers (IES/GATE/PSUs)

SSC-JE MAINS TEST SCHEDULE

CIVIL ENGINEERING

Date	Topic
TEST-1 2nd Aug. 2021	N.T. : M-1, SA-3, SM-1, TF-1 R.T. :
TEST-2 8th Aug. 2021	N.T. : SA-1, M-2, SM-2, TF-3 R.T. : M-1, SM-1, TF-1
TEST-3 16th Aug. 2021	N.T. : SA-2, SA-4, M-3, M-4, TF-2 R.T. : SA-3, SM-1, SM-2, TF-3
TEST-4 22nd Aug. 2021	N.T. : IR-1, SM-3, SM-4, HY-2, EE-4 R.T. : TF-2, SA-1, M-2, M-3
TEST-5 29th Aug. 2021	N.T. : HY-1, RCC-1, DSS-2, EE-2 R.T. : EE-4, M-4, SA-2, SA-4, HY-2, SM-3
TEST-6 5th Sept. 2021	N.T. : RCC-2, RCC-5, DSS-4, H-1 R.T. : DSS-2, RCC-1, SM-4, IR-1
TEST-7 12th Sept. 2021	N.T. : RCC-3, DSS-1, SU-1, H-2 R.T. : HY-1, EE-2, DSS-4, RCC-2
TEST-8 19th Sept. 2021	N.T. : RCC-4, DSS-3, SU-2, EE-3 R.T. : H-1, RCC-5, SU-1, SM-3
TEST-9 26th Sept. 2021	N.T. : BMC-1, BMC-2, EE-1, H-5 R.T. : RCC-3, H-2, DSS-1, SU-2, M-1
TEST-10 3rd Oct. 2021	N.T. : H-3, H-4, RAIL-1 R.T. : BMC-1, H-5, EE-3, RCC-4, DSS-3
TEST-11 10th Oct. 2021	N.T. : IR-2, ECV-1, ECV-2, RAIL-2 R.T. : BMC-2, EE-1, H-3, H-5, H-4, DSS-2, RCC-3
TEST-12 17th Oct. 2021	Full Length Test-1
TEST-13 24th Oct. 2021	Full Length Test-2
TEST-14 31st Oct. 2021	Full Length Test-3
TEST-15 7th Nov.. 2021	Full Length Test-4

Test Type

Timing

SSC-JE Mains Test _____ 10:00 A.M. to 12:00 P.M.

Note : The timing of the test may change on certain dates. Prior information will be given in this regard.

*N.T. : New Topic. *R.T. : Revision Topic

Call us : 8010009955, 011-41013406 or Mail us : info@iesmaster.org

Subject Code Details

Structure Analysis (SA)	SA-1	SA-2	SA-3		SA-4	
	Slope Deflection Method, Moment Distribution Method	Truss, Cables, Arches	Force Method, Consistent Deformation, Method of Least work, Castigliano's Method, Determinacy / indeterminacy / stability		Influence line diagram	
Strength of Material (M)	M-1	M-2		M-3	M-4	
	Concept of Stress and Strain, Shear Force & Bending Moment, Deflection of Beams	Transformation of Stress & Strains, Theory of Failure, Combined Bending & Torsion/Combined bending & Transverse shear stress/combined bending & Axial stress		Torsion, Bending Stress, Shear Stress	Columns, Springs, Thick & Thin Shells, Moment of Area and Moment of Inertia	
RCC Design (RCC)	RCC-1		RCC-2	RCC-3	RCC4	RCC-5
	RCC beams-flexural strength, shear strength, bond strength, design of singly reinforced and double reinforced beams, cantilever beams. T-beams (Both by WSM and LSM)		One way and two way slabs, Lintels (Both By WSM and LSM)	Reinforced brick works, columns, staircases, retaining wall, water tanks. (Both by LSM and WSM)	Pre-stress Concrete - Analysis and Loss Calculation	Isolated footings (Both by WSM and LSM)
Design of Steel Structure (DSS)	DSS-1	DSS-2		DSS-3		DSS-4
	Compression member	Connections (Direct, Eccentric), Tension Member		Beams, Roof trusses, Plate girders		Plastic Analysis
Building Materials and Concrete Technology (BMC)	BMC-1			BMC-2		
	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.			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.		
Estimating, Costing and Valuation (ECV)	ECV-1			ECV-2		
	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, isolates 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.		
Environmental Engineering (EE)	EE-1	EE-2		EE-3	EE-4	
	Characteristics of water, Treatment of water, Distribution of water	Characteristics of Sewage, Disposal of Sewage		Sewer Design, Treatment Sewage	Air Pollution, Noise Pollution, Solid Waste Management, Miscellaneous topics	
Soil Mechanics (SM)	SM-1	SM-2		SM-3		SM-4
	Classification of Soil, Soil water relationships, index properties of Soil, Compaction of Soil	Effective stress, Seepage, Permeability, Consolidation		Shear Stress, Vertical Stress Earth Pressure, Stability of Slopes, Bearing capacity, shallow Foundation		Deep Foundation, Soil Exploration
Hydraulics (H)	H-1	H-2	H-3		H-4	H-5
	Fluid properties, Hydrostatic Pressure, Liquid in relative equilibrium, Buoyancy & Flotation	Fluid Kinematics Fluid Dynamics, Weirs & Notches	Laminar flow, Turbulent Flow, Boundary layer theory, Drag & lift, Flow through Pipes		Open channel flow, Modal Analysis & Dimensional Analysis	Hydraulic Machines - pumps and turbines
Irrigation Engineering (IR)	IR-1			IR-1		
	Soil water relationships, irrigation requirements of crops (Duty, Delta) Design of Canals (Lacey & Kennedy)			Gravity dams Cross drainage works, Weirs & Barrages, Seepage theory, Canal Falls/Canal Regulators, Energy dissipators, River training works		
Hydrology (HY)	HY-1				HY-2	
	Evapo-transpiration, Run off Abstraction from Precipitation, Hydrological Cycle, Precipitation, Stream flow measurement				Hydrograph, Flood Routing, Ground Water	
Transportation Engineering (TF)	TF-1	TF-2			TF-3	
	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			Traffic Engineering – Different traffic survey, speed-flow-density and their interrelationships, intersections and interchanges, traffic signals, traffic operation, traffic signs and markings, road safety.	
Railway Engineering (RAIL)	RAIL-1			RAIL-2		
	Geometric Design of Track, Track & Tractive Resistance			Rails, Rail Joints, Sleepers, Fasteners, Ballast, Creep, Point & Crossing, Track Junction, Signalling, Station Yards, Miscellaneous		
Surveying (SU)	SU-1		SU-2			
	Principles of surveying, measurement of distance, chain surveying, working of prismatic compass, compass traversing, bearings, local attraction, 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, plane table surveying, curve setting, earth work calculation, advanced surveying equipment.			

For Any Query Regarding The Program

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