



IES MASTER

Institute for Engineers (IES/GATE/PSUs)

ESE-2024 Conventional Test Schedule, Civil Engineering

Date	Topic
31 Mar 2024	N.T. : M-1, M-3, M-4, SM-1, SM-3, SM-8 R.T. :
07 Apr 2024	N.T. : SA-1, SA-2, HY-1, HY-4, M-5 R.T. : SM-1, M-1
14 Apr 2024	N.T. : SA-5, DSS-4, DSS-5, FM-1, FM-4, FM-6, RCC-1 R.T. : M-3, SA-1, SA-2
21 Apr 2024	N.T. : SM-6, SM-7, SA-3, SA-4, EE-3, EE-4, EE-5, RCC-3 R.T. : M-1, M-4, FM-6
28 Apr 2024	N.T. : HY-2, FM-7, RCC-2, SU-5 R.T. : SM-3, SA-1, SA-2, DSS-5, EE-5
05 May 2024	N.T. : SM-4, SA-6, DSS-1, DSS-2, DSS-3, RCC-4, RCC-5 R.T. : SM-1, SA-3, SA-5, EE-4, RCC-3
12 May 2024	N.T. : SU-1, SU-2, SU-3, SM-2, SM-5, HY-3 R.T. : FM-7, RCC-3, HY-1, EE-5, SA-4, SA-5, SA-6, RCC-2, SU-5, SM-6, SM-7
16 May 2024	N.T. : CPM-1, CPM-2, DSS-6, TF-1, TF-2, TF-3, TF-4, FM-5, M-2 R.T. : DSS-1, SM-4, M-1, M-3, FM-4, SA-1, RCC-4
19 May 2024	N.T. : IR-1, IR-2, IR-3, IR-4, EE-6, BM-1, BM-3 R.T. : SM-5, SM-6, FM-1, DSS-3, DSS-4, HY-3, HY-4, SU-1, SU-2, RCC-2, EE-4, SA-4, SA-5
23 May 2024	N.T. : EE-1, EE-2, SU-4, TF-5, BM-2 R.T. : FM-5, TF-1, TF-2, FM-7, SA-3, SU-3, RCC-2, RCC-4, DSS-6, BM-3, CPM-1, CPM-2
26 May 2024	N.T. : FM-2, FM-3, FM-8, CPM-3 R.T. : IR-1, IR-2, HY-2, DSS-4, DSS-2, SA-2, SA-3, FM-6, RCC-5, EE-6, TF-5, BM-1, BM-2, M-3
02 June 2024	Full Length-1 (Test Paper-1 + Test Paper-2)
09 June 2024	Full Length-2 (Test Paper-1 + Test Paper-2)
16 June 2024	Full Length-3 (Test Paper-1 + Test Paper-2)

Test Type	Timing	Day
Conventional Test	10:00 A.M. to 1:00 P.M.	Sunday
Conventional Full Length Test Paper-1	10:00 A.M. to 1:00 P.M.	Sunday
Conventional Full Length Test Paper-2	02:00 P.M. to 5:00 P.M.	Sunday

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

SOM (M)	M-1	M-2	M-3				M-4	M-5	
	Concept of Stress and Strain, Engineering Mechanics	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 inertia	
Soil Mechanics (SM)	SM-1		SM-2	SM-3	SM-4	SM-5	SM-6	SM-7	SM-8
	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 - Piles	Exploration of Soil, Expansive Soil, Geosynthetics, Ground Modification Techniques
Structural Analysis (SA)	SA-1	SA-2	SA-3	SA-4		SA-5		SA-6	
	Slope Deflection Method	Moment Distribution Method	Truss, Cables, Arches	Determinacy/ indeterminacy/ stability Force Method, • Consistent Deformation Method • Method of Least work (Unit load method) • Castigliano's Method		Flexibility Matrix Method, Stiffness Matrix Method, Influence Line Diagram/ Moving Load		Structural Dynamics (Free & Forced Vibrations), Concepts and use of computer aided design	
Hydrology (HY)	HY-1	HY-2	HY-3	HY-4					
	Hydrographs	Flood Routing	Ground Water	Evapo-transpiration, Run off, Abstraction from Precipitation, Hydrological Cycle, Precipitation, Stream flow measurement					
Design of Steel Structure (DSS)	DSS-1	DSS-2	DSS-3	DSS-4	DSS-5		DSS-6		
	Compression member	Plastic Analysis	Beams	Connections (Direct, Eccentric)	Tension Member		Plate girders, Gantry girders, Industrial building		
Fluid Mechanics (FM)	FM-1		FM-2	FM-3	FM-4	FM-5	FM-6	FM-7	FM-8
	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	Hydraulic Machines, Power House	Modal Analysis & Dimensional Analysis
Environmental (EE)	EE-1			EE-2	EE-3	EE-4	EE-5	EE-6	
	Characteristics of water, Distribution of water, Treatment of water			Characteristics of Sewage	Disposal of Sewage	Sewer design	Treatment of Sewage	Air Pollution, Noise Pollution, Solid Waste Management, Miscellaneous topics	
RCC & PSC (RCC)	RCC-1		RCC-2	RCC-3	RCC-4		RCC-5		
	Working stress Method, Limit State Method of RCC Design		Earthquake resistant structures, Beams (LS, WS), Lintels	Slab-One way, (LS, WS) Staircase	Column, (LS, WS) Water Tanks	Footing (LS, WS), Retaining Wall	Cement & Concrete, Masonry Structures, PSC- Pre stressed Concrete		
Surveying (SU)	SU-1			SU-2	SU-3		SU-4		SU-5
	Scale/ Accuracy, Measurements of horizontal distances, Theory of Errors			Angular Measurements, Theodolite	Levelling, Contouring, Curve setting, Measurement of Area & Volume		Triangulation & Traversing Plane tabling, Geology		Photogrammetry, Field Astronomy GPS, Remote Sensing
Transportation (TF)	TF-1	TF-2	TF-3		TF-4		TF-5		
	Geometric Design	Pavement Design	Materials, Construction, Maintenance, Hill roads etc.		Traffic Engineering		Railways, Airports, Ports & Harbours, Tunneling		
Irrigation (IR)	IR-1		IR-2	IR-3	IR-4				
	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				
Pert & CPM (CPM)	CPM-1			CPM-2		CPM-3			
	Network analysis, Pert, CPM, Crashing, Resource Allocation, Levelling, Smoothing, Rate Analysis			Engineering Economy, Management Estimation and costing		Construction equipments, Project Management, Tendering Process and Contract, Quality control, Productivity, Safety, Operation cost, Land Acquisition			
Building Material (BM)	BM-1		BM-2		BM-3				
	Cement, Concrete		Timber, Bricks, Mortar, Stone		Aggregates, Lime, Paints, Glass, Steel, Plastics, FRP, Ceramics, Aluminium, etc				

For Any Query Regarding The Program

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