



IES MASTER

Institute for Engineers (IES/GATE/PSUs)

ESE-2019 Conventional Test Schedule, Civil Engineering

Date	Topic
17th Mar 2019	N.T. : M-1, M-3, M-4, SM-1, SM-3, SM-8 R.T. :
24th Mar 2019	N.T. : SA-1, SA-2, SA-5, HY-1, HY-4, HY-5, M-5 R.T. : SM-1, M-1
31st Mar 2019	N.T. : DSS-4, DSS-5, FM-1, FM-4, FM-6 R.T. : M-3, SA-1, SA-2
07th Apr 2019	N.T. : SA-6, SA-4, SA-3, EE-6, EE-5, EE-4 R.T. : FM-4, FM-6, M-1, M-4, M-3, HY-1
14th Apr 2019	N.T. : FM-7, RCC-1, RCC-2, RCC-3, HY-2 R.T. : SA-1, SA-2, SM-3, FM-6, EE-6
21st Apr 2019	N.T. : SM-4, DSS-1, DSS-2, DSS-3, RCC-4, RCC-5, RCC-6 R.T. : SM-1, SA-3, EE-5
28th Apr 2019	N.T. : SU-1, SU-2, SU-3, SM-2, SM-5, SM-6, SM-7, HY-3, SU-5 R.T. : FM-7, RCC-1, RCC-2, RCC-3, HY-1, EE-6
05th May 2019	N.T. : TF-1, TF-2, TF-3, TF-4, FM-5, M-2 R.T. : RCC-5, DSS-1, DSS-2, SM-4, M-1, M-3, M-4, FM-4, SA-1
12th May 2019	N.T. : IR-1, IR-2, IR-3, IR-4, EE-7 R.T. : SM-5, SM-6, FM-1, EE-5, DSS-3, DSS-4, HY-3, HY-4, HY-5, SU-1, SU-2
19th May 2019	N.T. : CPM-1, CPM-2, EE-1, EE-2, EE-3, SU-4 (Railway & Airport) R.T. : SM-4, FM-5, TF-1, TF-2, FM-7, SA-3, SU-3, SU-5, RCC-5
26th May 2019	N.T. : FM-2, FM-3, FM-8, Building Material, Ports & Harbors/Tunneling R.T. : IR-1, IR-2, HY-2, DSS-4, DSS-2, SA-1, SA-2, SA-3, RCC-6, EE-2, FM-6
02nd Jun 2019	Full Length-1 (Test Paper-1 + Test Paper-2)
09th Jun 2019	Full Length-2 (Test Paper-1 + Test Paper-2)
16th Jun 2019	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

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Subject Code Details

Structural Analysis (SA)	SA-1	SA-2	SA-3	SA-4		SA-5		SA-6		
	Slope Deflection Method	Moment Distribution Method	Truss, Cables, Arches	Force Method, • Consistent Deformation Method • Method of Least work • Castigliano's Method		Determinacy/ indeterminacy/ stability		Stiffness Matrix Method, Influence Line Diagram/Moving Load , Free and Forced Vibrations , Concepts and use of computer aided design		
SOM (M)	M-1	M-2		M-3			M-4		M-5	
	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 inertia	
RCC & PSC (RCC)	RCC-1		RCC-2	RCC-3	RCC-4	RCC-5		RCC-6		
	Working stress Method of RCC Design		Limit State Method	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		
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, Industrial building		
Pert & CPM (CPM)	CPM-1				CPM-2					
	Network analysis, Pert, CPM, Crashing, Resource allocation, Levelling,Smoothing, Rate Analysis				Construction equipments, Engineering Economy,Tendering Process and Contract , Management Estimation and costing, Quality control, Productivity, Opration cost, Land Aquisition					
Building Material (BM)	BM-1			BM-2						
	Cement, Concrete, Stone, Lime, Glass, Steel			Brick Mortar Timber, Plastics, FRP, Ceramics, Aluminium						
Environmental (EE)	EE-1		EE-2	EE-3	EE-4	EE-5	EE-6	EE-7		
	Characteristics of water, Treatment of water		Distribution of water	Characteristics of Sewage	Disposal of Sewage	Sewer design	Treatment of Sewage	Air Pollution, Noise Pollution, Solid Waste Management, Miscellaneous topics		
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
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
Transportation (TF)	TF-1	TF-2		TF-3					TF-4	
	Geometric Design	Pavement Design		Materials, Construction, Maintenance, Hill roads etc.					Traffic Engineering	
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	
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				
Hydrology (HY)	HY-1	HY-2	HY-3	HY-4		HY-5				
	Hydrographs	Flood Routing	Ground Water	Evapo-transpiration, Run off		Abstraction from Precipitation, Hydrological Cycle, Precipitation, Stream flow measurement				
Railways / Airports / Ports & Harbours / Tunneling										

For Any Query Regarding The Program

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