



IES MASTER

Institute for Engineers (IES/GATE/PSUs)

ESE-2017 Prelims Test Schedule, Civil Engineering

OBJECTIVE TEST

Date	Topic
2nd October	N.T. : M-1, M-3, M-4, SM-1, SM-3, SM-8 R.T. :
9th October	N.T. : SA-1, SA-2, SA-5, HY-1, HY-4, HY-5, M-5 R.T. : SM-1, M-1
16th October	N.T. : DSS-4, DSS-5, FM-1, FM-4, FM-6 R.T. : M-3, SA-1, SA-2
23rd October	N.T. : SA-6, SA-4, SA-3, EE-6, EE-5, EE-4 (General Studies & Engineering Aptitude) R.T. : FM-4, FM-6, M-1, M-4, M-3, HY-1
30th October	N.T. : FM-7, RCC-1, RCC-2, RCC-3, HY-2 R.T. : SA-1, SA-2, SM-3, FM-6, EE-6
6th November	N.T. : SM-4, DSS-1, DSS-2, DSS-3, RCC-4, RCC-5, RCC-6 (General Studies & Engineering Aptitude) R.T. : SM-1, SA-3, EE-5
13th November	N.T. : SU-1, SU-2, SU-3, SU-5, SM-2, SM-5, SM-6, SM-7, HY-3 R.T. : FM-7, RCC-1, RCC-2, RCC-3, HY-1, EE-6
20th November	N.T. : TF-1, TF-2, TF-3, TF-4, FM-5, M-2 (General Studies & Engineering Aptitude) R.T. : RCC-5, DSS-1, DSS-2, SM-4, M-1, M-3, M-4, FM-4, SA-1
27th November	N.T. : IR-1, IR-2, IR-3, IR-4, RCC-6 R.T. : SM-5, SM-6, FM-4, EE-5, DSS-3, DSS-4, HY-2, SU-1, SU-2, HY-3
4th December	N.T. : CPM-1, CPM-2, EE-1, EE-2, EE-3, SU-4 (Railway & Airport) (General Studies & Engineering Aptitude) R.T. : SM-4, FM-5, TF-1, TF-2, FM-7, SA-3, SU-3, SU-5, RCC-5
11th December	N.T. : FM-2, FM-3, FM-8, Building Material, Ports & Harbours / 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
18th December	Full Length + General Studies and Aptitude
25th December	Full Length + General Studies and Aptitude
1st January, 2017	Full Length + General Studies and Aptitude

Test Type

Technical Obj. Test _____ 10:00 A.M. to 1:00 P.M. _____ Sunday

GS & Engg. Aptitude Test _____ 2:00 P.M. to 4:00 P.M. _____ Sunday

Timing

Day

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

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	Force Method, • Consistent Deformation Method • Method of Least work • Castigliano's Method		Determinacy/ indeterminacy/ stability	Stiffness Matrix Method, Influence Line Diagram/ Moving Load			
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) 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				
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, 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	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	Consolidation	Shear Stress/ Vertical Stress	Earth Pressure, Stability of Slopes	Bearing capacity- Shallow Foundation	Deep foundation - Piles	Exploration of Soil, Expansive Soil, Geosynthetics	
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			Angular Measurements		Levelling, Contouring	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			
Railways / Airports / Ports & Harbours / Tunneling										

For Any Query Regarding The Program

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