

# ESE PRELIMS

## Previous Years Questions Practice Tests

- Topic-Wise Question Segregation
- Detailed Explanations & Solutions
- Timed Practice Mode
- Smart Analytics Dashboard
- Previous Years Questions Trend Analysis

Fee:  
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**Test is Active**



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## Tests Details

Test No	Test Name	Total Question	Total Marks	Duration
1	PRACTICE TEST – 01 STRENGTH OF MATERIALS	61	122	90
2	PRACTICE TEST – 02 SHEAR FORCE AND BENDING MOMENT	22	44	33
3	PRACTICE TEST – 03 DEFLECTION OF BEAM	17	34	25
4	PRACTICE TEST – 04 TRANSFORMATION OF STRESS AND STRAIN	39	78	58
5	PRACTICE TEST – 05 COMBINED STRESSES	6	12	9
6	PRACTICE TEST – 06 BENDING STRESS IN BEAMS	15	30	22
7	PRACTICE TEST – 07 SHEAR STRESS IN BEAMS	17	34	25
8	PRACTICE TEST – 08 TORSION OF CIRCULAR SHAFT	19	38	28
9	PRACTICE TEST – 09 COLUMNS	5	10	7
10	PRACTICE TEST – 10 SPRINGS	9	18	13
11	PRACTICE TEST – 11 THICK AND THIN CYLINDER-SPHERES	3	6	4
12	PRACTICE TEST – 12 MOMENT OF INERTIA	1	2	2
13	PRACTICE TEST – 13 DETERMINACY, INDETERMINACY AND STABILITY OF STRUCTURES	18	36	27
14	PRACTICE TEST – 14 FORCE METHOD OF ANALYSIS	3	6	4
15	PRACTICE TEST – 15 SLOPE DIFLECTION METHOD	9	18	13
16	PRACTICE TEST – 16 MOMENT DISTRIBUTION METHOD	4	8	6
17	PRACTICE TEST – 17 TRUSSES	5	10	7
18	PRACTICE TEST – 18 INFLUENCE LINE DIAGRAM	8	16	12
19	PRACTICE TEST – 19 MATRIX METHOD OF ANALYSIS	3	6	4
20	PRACTICE TEST – 20 ARCHES AND SUSPENDE CABLES	16	32	24
21	PRACTICE TEST – 21 STRUCTURAL DYNAMICS	9	18	13
22	PRACTICE TEST – 22 GENERAL DESIGN REQUIREMENTS	8	16	12
23	PRACTICE TEST – 23 CONNECTIONS	16	32	24
24	PRACTICE TEST – 24 DESIGN OF TENSION MEMBER	13	26	20
25	PRACTICE TEST – 25 DESIGN OF COMPRESSION MEMBER	24	48	36
26	PRACTICE TEST – 26 DESIGN OF BEAMS	18	36	27
27	PRACTICE TEST – 27 DESIGN OF PLATE GIRDERS	10	20	15
28	PRACTICE TEST – 28 DESIGN OF GANTRY GIRDERS	2	4	3
29	PRACTICE TEST – 29 PLASTIC ANALYSIS	14	28	21
30	PRACTICE TEST – 30 INDUSTRIAL BUILDING	11	22	16
31	PRACTICE TEST – 31 LIMIT STATE AND WORKING STRESS METHODS	33	66	49
32	PRACTICE TEST – 32 LIMIT STATE OF COLLAPSE IN SHEAR	11	22	16
33	PRACTICE TEST – 33 BOND AND ANCHORAGE	7	14	10
34	PRACTICE TEST – 34 TORSION	2	4	3
35	PRACTICE TEST – 35 DESIGN OF BEAM AND SLAB	19	38	29
36	PRACTICE TEST – 36 COLUMNS AND WALLS	18	36	27
37	PRACTICE TEST – 37 FOOTING	3	6	4
38	PRACTICE TEST – 38 PRESTRESSED CONCRETE	16	32	24
39	PRACTICE TEST – 39 EARTHQUAKE ENGINEERING	7	14	10
40	PRACTICE TEST – 40 RETAINING WALL. TANK STAIRCASE AND LINTEL	10	20	15
41	PRACTICE TEST – 41 PROJECT MANAGEMENT	25	50	37
42	PRACTICE TEST – 42 FUNDAMENTAL OF NETWORK	4	8	6
43	PRACTICE TEST – 43 PROGRAMME EVALUATION REVIEW TECHNIQUE	6	12	9
44	PRACTICE TEST – 44 CRITICAL PATH METHOD	12	24	18
45	PRACTICE TEST – 45 CRASHING	5	10	7
46	PRACTICE TEST – 46 UPDATING AND RESOURCING ALLOCATION	4	8	6
47	PRACTICE TEST – 47 A-O-N DIAGRAM	2	4	3
48	PRACTICE TEST – 48 ENGINEERING ECONOMY	4	8	6
49	PRACTICE TEST – 49 CONSTRUCTION EQUIPMENT	14	28	21
50	PRACTICE TEST – 50 LABOUR, SAFETY AND WELFARE LAND ACQUISITION	4	8	6
51	PRACTICE TEST – 51 MISCELLANEOUS	17	34	25
52	PRACTICE TEST – 52 CEMENT	25	50	37
53	PRACTICE TEST – 53 CONCRETE	60	120	90
54	PRACTICE TEST – 54 BRICK AND STONE	25	50	37

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Test No	Test Name	Total Question	Total Marks	Duration
55	PRACTICE TEST – 55 MORTAR	16	32	24
56	PRACTICE TEST – 56 MASONRY	6	12	9
57	PRACTICE TEST – 57 TIMBER	21	42	32
58	PRACTICE TEST – 58 MISCELLANEOUS	17	34	25
59	PRACTICE TEST – 59 FLUID PROPERTIES	14	28	21
60	PRACTICE TEST – 60 HYDROSTATIC PRESSURE	7	14	10
61	PRACTICE TEST – 61 LIQUID IN RELATIVE EQUILIBRIUM	5	10	7
62	PRACTICE TEST – 62 BUOYANCY AND FLOATATION	6	12	9
63	PRACTICE TEST – 63 FLUID KINEMATICS	12	24	18
64	PRACTICE TEST – 64 FLUID DYNAMICS	11	22	16
65	PRACTICE TEST – 65 WEIRS AND NOTCHES	9	18	13
66	PRACTICE TEST – 66 LAMINAR FLOW	1	2	1
67	PRACTICE TEST – 67 TURBULENT FLOW	4	8	6
68	PRACTICE TEST – 68 BOUNDARY LAYER THEORY	6	12	9
69	PRACTICE TEST – 69 DRAG AND LIFT	11	22	16
70	PRACTICE TEST – 70 FLOW THROUGH PIPES	14	28	21
71	PRACTICE TEST – 71 MODAL ANALYSIS AND DIMENSIONAL ANALYSIS	8	16	12
72	PRACTICE TEST – 72 OPEN CHANNEL FLOW	27	54	40
73	PRACTICE TEST – 73 HYDRAULIC MACHINE	67	134	100
74	PRACTICE TEST – 74 WATER DEMAND, ITS SOURCE AND CONVENYANCE	14	28	21
75	PRACTICE TEST – 75 QUALITY PARAMETERS OF WATER	13	26	19
76	PRACTICE TEST – 76 TREATMENT OF WATER	41	82	60
77	PRACTICE TEST – 77 DISTRIBUTION SYSTEM	6	12	9
78	PRACTICE TEST – 78 WASTE WATER CHARACTERISTICS	8	16	12
79	PRACTICE TEST – 79 BIOCHEMICAL REACTIONS IN TREATMENT OF WASTE WATER	2	4	3
80	PRACTICE TEST – 80 DISPOSAL OF SEWAGE EFFLUENT	5	10	7
81	PRACTICE TEST – 81 DESIGN OF SEWERAGE SYSTEM AND SEWER APPURTENANCES	6	12	9
82	PRACTICE TEST – 82 SEWAGE TREATMENT	24	48	36
83	PRACTICE TEST – 83 SOLID WASTE MANAGEMENT	8	16	12
84	PRACTICE TEST – 84 AIR POLLUTION	11	22	17
85	PRACTICE TEST – 85 NOISE POLLUTION	4	8	6
86	PRACTICE TEST – 86 MISCELLANEOUS	11	22	17
87	PRACTICE TEST – 87 INTRODUCTION	1	2	2
88	PRACTICE TEST – 88 MEASUREMENT OF PRECIPITATION	8	16	12
89	PRACTICE TEST – 89 ABSTRACTIONS FROM PRECIPITATION	9	18	13
90	PRACTICE TEST – 90 SURFACE WATER HYDROLOGY (RUNOFF)	5	10	7
91	PRACTICE TEST – 91 SURFACE WATER HYDROLOGY (HYDROGRAPHS)	6	12	9
92	PRACTICE TEST – 92 FLOODS	5	10	7
93	PRACTICE TEST – 93 FLOODS ROUTING	3	6	4
94	PRACTICE TEST – 94 GROUND WATER HYDROLOGY	15	30	22
95	PRACTICE TEST – 95 ORIGIN OF SOIL AND SOIL WATER RELATIONSHIP	32	64	48
96	PRACTICE TEST – 96 CLASSIFICATION OF SOIL	7	14	11
97	PRACTICE TEST – 97 CLAY MINERAL AND SOIL STRUCTURE	2	4	3
98	PRACTICE TEST – 98 SOIL COMPACTION	6	12	9
99	PRACTICE TEST – 99 EFFECTIVE STRESS, CAPILLARITY AND PERMEABILITY	16	32	24
100	PRACTICE TEST – 100 SEEPAGE THROUGH SOIL	3	6	5
101	PRACTICE TEST – 101 VERTICAL STRESSES	7	14	11
102	PRACTICE TEST – 102 COMPRESSIBILITY AND CONSOLIDATION	18	36	27
103	PRACTICE TEST – 103 SHEAR STRENGTH OF SOIL	11	22	17
104	PRACTICE TEST – 104 STABILITY OF SLOPES	5	10	7
105	PRACTICE TEST – 105 EARTH PRESSURE AND RETAINING WALLS	13	26	20
106	PRACTICE TEST – 106 SHALLOW FOUNDATION	19	38	29
107	PRACTICE TEST – 107 DEEP FOUNDATION	5	10	7
108	PRACTICE TEST – 108 SOIL EXPLORATION	5	10	7

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Test No	Test Name	Total Question	Total Marks	Duration
109	PRACTICE TEST – 109 EXPANSIVE SOILS	6	12	9
110	PRACTICE TEST – 110 ENGINEERING GEOLOGY	8	16	12
111	PRACTICE TEST – 111 IRRIGATION AND METHODS OF IRRIGATION	6	12	9
112	PRACTICE TEST – 112 SOIL MOISTURE AND PLANT RELATIONSHIPS	10	20	15
113	PRACTICE TEST – 113 WATER REQUIREMENTS OF CROPS AND CANAL IRRIGATION	7	14	11
114	PRACTICE TEST – 114 WATER LOGGING AND RECLAMATION OF SALINE SOILS	8	16	12
115	PRACTICE TEST – 115 CANAL DESIGN	12	24	18
116	PRACTICE TEST – 116 CANAL REGULATION WORK	3	6	4
117	PRACTICE TEST – 117 CANAL HEAD WORKS AND SEEPAGE THEORY	4	8	6
118	PRACTICE TEST – 118 RIVER ENGINEERING	9	18	14
119	PRACTICE TEST – 119 CROSS DRAINAGE WORKS	2	4	3
120	PRACTICE TEST – 120 DAMS AND RESERVOIRS	14	28	21
121	PRACTICE TEST – 121 SPILLWAYS, ENERGY DISSIPATORS AND SPILLWAY GATES	5	10	7
122	PRACTICE TEST – 122 HIGHWAY DEVELOPMENT AND PLANNING	3	6	4
123	PRACTICE TEST – 123 GEOMETRIC DESIGN	25	50	37
124	PRACTICE TEST – 124 TRAFFIC ENGINEERING	19	38	29
125	PRACTICE TEST – 125 HIGHWAY MATERIALS	7	14	11
126	PRACTICE TEST – 126 PAVEMENT DESIGN	16	32	24
127	PRACTICE TEST – 127 HIGHWAY CONSTRUCTION	6	12	9
128	PRACTICE TEST – 128 HIGHWAY MAINTENANCE	2	4	3
129	PRACTICE TEST – 129 HILL ROAD	1	2	2
130	PRACTICE TEST – 130 FUNDAMENTAL OF SURVEYING	9	18	13
131	PRACTICE TEST – 131 LINEAR MEASUREMENT	11	22	17
132	PRACTICE TEST – 132 COMPASS SURVEYING	10	20	15
133	PRACTICE TEST – 133 THEODOLITE	5	10	7
134	PRACTICE TEST – 134 TRAVERSING	2	4	3
135	PRACTICE TEST – 135 LEVELLING	15	30	22
136	PRACTICE TEST – 136 TACHEOMETRY	1	2	2
137	PRACTICE TEST – 137 TRIGONOMETRIC LEVELLING	3	6	4
138	PRACTICE TEST – 138 PHOTOGRAMMETRY	14	28	21
139	PRACTICE TEST – 139 THEORY OF ERRORS	2	4	3
140	PRACTICE TEST – 140 CURVES	4	8	6
141	PRACTICE TEST – 141 MEASUREMENT OF AREA AND VOLUME	2	4	3
142	PRACTICE TEST – 142 PLANE TABLE SURVEY	1	2	2
143	PRACTICE TEST – 143 FIELD ASTRONOMY	6	12	9
144	PRACTICE TEST – 144 CONTOURING	2	4	3
145	PRACTICE TEST – 145 GPS AND REMOTE SENSING	10	20	15
146	PRACTICE TEST – 146 RAIL, RAILWAY AND RAIL JOINTS	2	4	3
147	PRACTICE TEST – 147 SLEEPERS AND TRACK FASTENERS	4	8	6
148	PRACTICE TEST – 148 BALLAST AND SOIL SUB GRADE	2	4	3
149	PRACTICE TEST – 149 STRESSES ON RAILWAY TRACK AND CREEP OF RAIL	2	4	3
150	PRACTICE TEST – 150 GEOMETRIC DESIGN OF THE TRACK	8	16	12
151	PRACTICE TEST – 151 POINTS AND CROSSINGS TRACK JUNCTIONS	3	6	4
152	PRACTICE TEST – 152 STATIONS AND YARDS AND EQUIPMENTS IN STATION YARDS	1	2	2
153	PRACTICE TEST – 153 TRACTION AND TRACTIVE RESISTANCES	2	4	3
154	PRACTICE TEST – 154 MISCELLANEOUS	2	4	3
155	PRACTICE TEST – 155 AIRPORT PLANNING	1	2	2
156	PRACTICE TEST – 156 RUNWAY DESIGN	2	4	3
157	PRACTICE TEST – 157 RUNWAY GEOMETRIC DESIGN	2	4	3
158	PRACTICE TEST – 158 TAXIWAY DESIGN	2	4	3
159	PRACTICE TEST – 159 NATURAL PHENOMENA	2	4	3
160	PRACTICE TEST – 160 TUNNEL ENGINEERING	13	26	20

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