

## TNEB | TRB – ONLINE TEST SERIES SCHEDULE- 2020

### CIVIL ENGINEERING

S. No	Activation Date	Syllabus
1	27.4.2020	<b>GeoTechnical Engineering :</b> Introduction of Soil, Soil Relationship, Soil structure & Clay mineralogy, Soil Classification, Index Properties of soil
2	28.4.2020	Permeability, effective Pressure, Seepage pressure & Critical Hydraulic gradient, seepage analysis, Stress distribution
3	29.4.2020	Consolidation, Compaction, Shear strength, Earth pressure, Stability of Slopes
4	30.4.2020	Bearing capacity, pile foundation, Soil exploration, Types of foundation, negative skin friction, sheet Piles.
5	1.5.2020	<b>Full subject Test:</b> GeoTechnical Engineering (Soil Mechanics &Foundation Engg.)
6	3.5.2020	<b>Transportation Engineering:</b> Highway development & Planning, Highway alignment & Surveys, Geometric Design of Highway (Basic Elements, Gradients, Sight distance, Super elevation, Extra widening, set back distance, Transition & Vertical Curves
7	4.5.2020	Highway materials & Testing, Design of flexible & Rigid Pavement
8	5.5.2020	<b>Traffic Engineering:</b> (Traffic characteristics, Traffic Surveys, Signals, Road Marking & Signs)& Pavement Failure
9	6.5.2020	Railway, Airport & Horbour Engineering (Railway alignment, Components of Permanent way, Geometric design of railway, components of airport, airport planning, Runway design, site selection for airport & Horbour, components of Horbour.
10	7.5.2020	<b>Full subject Test:</b> Transportation Engineering
11	9.5.2020	<b>Building Material:</b> Cement, concrete, Brick Masonry, Stone, Timber, Steel.
12	10.5.2020	<b>Combination Test –1 :</b> Geo tech.Engg + Transportation + Building Material.
13	12.5.2020	<b>Hydrology:</b> Precipitation, mean Precipitation calculation, frequency of point rainfall & Probability, Evaporation, Transpiration, infiltration
14	13.5.2020	Runoff, Hydrographs, maximum flood estimation, flood routing, well hydraulics, River gauging.
15	14.5.2020	<b>Full subject Test:</b> Hydrology
16	15.5.2020	<b>Irrigation Engineering:</b> Water Requirement of crops, methods of irrigation, Gravity dams, Spillways, diversion of head works.

17	16.5.2020	Design of unlined canal by silt theories, water logging, cross drainage works, canal outlets, canal regulations works.
18	17.5.2020	<b>Full subject Test:</b> Irrigation Engineering.
19	18.5.2020	<b><u>Combination Test – 2</u></b> 1. GeoTechnical Engineering 2. Transportation Engineering 3. Building Material 4. Hydrology 5. Irrigation Engineering
20	20.5.2020	<b><u>Strength of Material:</u></b> (Mechanics) Simple stress & strains, complex stress & strains, SFD & BMD, Centre of gravity, moment of inertia, Theory of simple bending
21	21.5.2020	Shear stress distribution in Beams, Torsion, Slope & Deflections, Thin cylinders, Column & Struts
22	22.5.2020	Strain energy, propped & fixed Beams, shear centre, Theories of failure, curved Beam, unsymmetrical bending
23	23.5.2020	<b>Full subject Test:</b> Strength of Material
24	25.5.2020	<b><u>Steel Structures:</u></b> Materials& Specification, Connection (Rivet, Bolt, Weld) Eccentric Connection, Tension Member
25	26.5.2020	Compression member, Column Bases & Splices, Beams, Plate girders, Gantry Girders, Roof Trusses
26	27.5.2020	<b>Full subject Test:</b> Steel Structures
27	29.5.2020	<b><u>Combination Test – 3</u></b> 1. GeoTech 2. Transportation 3. Building Material 4. Hydrology 5. Irrigation Engineering 6. Strength of Material 7. Steel Structures
28	31.5.2020	<b><u>Fluid Mechanics:</u></b> Properties of fluid, Pressure measurement, Fluid Statics, Buoyancy & Meta Centric height, fluid kinematics, Energy equation & its applications

29	1.6.2020	Momentum equation & its applications, laminar flow, flow through pipes, Elementary turbulent flow, Boundary layer Theory, forces on submerged bodies.
30	2.6.2020	Open channel flow, Dimensional analysis, Hydraulic machines
31	3.6.2020	<b>Full subject Test:</b> Fluid Mechanics
32	5.6.2020	<b>Structural Analysis:</b> Static & Kinematic indeterminacy, Statically Determinate trusses, methods of structural analysis, Energy principle.
33	6.6.2020	Moment distribution method, Slope deflection method, Plastic theory, ILD, Arches & cables, Matrix methods of structural analysis
34	7.6.2020	<b>Full subject Test:</b> Structural analysis
35	9.6.2020	<b>Environmental Engineering:</b> Population forecasting & water demand, Sources & conveyance of water, Quality of water, Plain sedimentation
36	10.6.2020	Coagulation, Filtration, Disinfection, Miscellaneous water treatment methods, Distribution System
37	11.6.2020	Intro of DWF & WWF, Design of sewers, Characteristics of sewage, Treatment of sewage.
38	12.6.2020	Activated sludge process, Trickling filter, sludge digestion, septic tank, oxidation ponds, Disposal of sewage effluents
39	13.6.2020	solid waste management, Air pollution & Control & Noise pollution
40	14.6.2020	<b>Full subject Test:</b> Environmental Engineering
41	16.6.2020	<b>Combination Test – 4</b> <ol style="list-style-type: none"> <li>1. GeoTechnical Engg.</li> <li>2. Transportation</li> <li>3. Building Material</li> <li>4. Hydrology</li> <li>5. Irrigation Engineering</li> <li>6. Strength of Material</li> <li>7. Steel Structures</li> <li>8. Fluid Mechanics</li> <li>9. Structural analysis</li> <li>10. Environmental Engineering</li> </ol>
42	18.6.2020	<b>Concrete Structures:</b> RCC fundamental Properties, Design concepts (Beams, flanged Beams)

43	19.6.2020	Shear, Bond, Torsion, Slab Design, Compression Member
44	20.6.2020	Footings, Limit state of serviceability, Fundamentals of Prestress, Analysis of Prestress & Losses in prestressed concrete
45	21.6.2020	<b>Full subject Test:</b> Concrete structures
46	23.6.2020	<b>Surveying:</b> Basic concepts, Linear & Angular measurements, Plane Table Surveying, Leveling, Trigonometrical levelling
47	24.6.2020	Theodolite, Traversing & omitted measurements, contouring, Areas & Volumes, Tachometry.
48	25.6.2020	Errors & Adjustments, Total station, Photogrammetric, Triangulation, Remote sensing, GPS, GIS
49	26.6.2020	<b>Full subject Test:</b> Surveying
50	27.6.2020	<b><u>Combination Test – 5</u></b> 1. GeoTech 2. Environmental Engineering 3. Transportation 4. Concrete structure 5. Survey
51	**	Full length Test - 1
52	**	Full length Test - 2
53	**	Full length Test - 3
54	**	Full length Test - 4
55	**	Full length Test - 5
56	**	Full length Test - 6
57	**	Full length Test - 7
58	**	Full length Test - 8
59	**	Full length Test - 9
60	**	Full length Test - 10

**\*\* Full length tests will be planned at the later phase considering the date of main exam.**



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