

TNEB | TRB – ONLINE TEST SERIES SCHEDULE- 2020

CIVIL ENGINEERING

| S. No | Activation Date | Syllabus |
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| 1 | 27.4.2020 | GeoTechnical Engineering : 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 | Full subject Test: GeoTechnical Engineering (Soil Mechanics &Foundation Engg.) |
| 6 | 3.5.2020 | Transportation Engineering: 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 | Traffic Engineering: (Traffic characteristics, Traffic Surveys, Signals, Road Marking & Signs)& Pavement Failure |
| 9 | 6.5.2020 | Railway, Airport & Harbour Engineering (Railway alignment, Components of Permanent way, Geometric design of railway, components of airport, airport planning, Runway design, site selection for airport & Harbour, components of Harbour. |
| 10 | 7.5.2020 | Full subject Test: Transportation Engineering |
| 11 | 9.5.2020 | Building Material: Cement, concrete, Brick Masonry, Stone, Timber, Steel. |
| 12 | 10.5.2020 | Combination Test –1 : Geo tech.Engg + Transportation + Building Material. |
| 13 | 12.5.2020 | Hydrology: 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 | Full subject Test: Hydrology |
| 16 | 15.5.2020 | Irrigation Engineering: Water Requirement of crops, methods of irrigation, Gravity dams, Spillways, diversion of head works. |

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| 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 | Full subject Test: Irrigation Engineering. |
| 19 | 18.5.2020 | <p>Combination Test – 2</p> <ol style="list-style-type: none"> 1. GeoTechnical Engineering 2. Transportation Engineering 3. Building Material 4. Hydrology 5. Irrigation Engineering |
| 20 | 20.5.2020 | Strength of Material: (Mechanics) Simple stress & strains, complex stress & strains, SFD & BMD, Centre of gravity, moment of inertia, Theory of simple bending |
| 21 | 21.5.2020 | Sheer 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 | Full subject Test: Strength of Material |
| 24 | 25.5.2020 | Steel Structures: 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 | Full subject Test: Steel Structures |
| 27 | 29.5.2020 | <p>Combination Test – 3</p> <ol style="list-style-type: none"> 1. GeoTech 2. Transportation 3. Building Material 4. Hydrology 5. Irrigation Engineering 6. Strength of Material 7. Steel Structures |
| 28 | 31.5.2020 | Fluid Mechanics: Properties of fluid, Pressure measurement, Fluid Statics, Buoyancy & Meta Centric height, fluid kinematics, Energy equation & its applications |

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| 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 | Full subject Test: Fluid Mechanics |
| 32 | 5.6.2020 | Structural Analysis: 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 | Full subject Test: Structural analysis |
| 35 | 9.6.2020 | Environmental Engineering: 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 | Full subject Test: Environmental Engineering |
| 41 | 16.6.2020 | <p>Combination Test – 4</p> <ol style="list-style-type: none"> 1. GeoTechnical Engg. 2. Transportation 3. Building Material 4. Hydrology 5. Irrigation Engineering 6. Strength of Material 7. Steel Structures 8. Fluid Mechanics 9. Structural analysis 10. Environmental Engineering |
| 42 | 18.6.2020 | Concrete Structures: RCC fundamental Properties, Design concepts (Beams, flanged Beams) |

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| 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 | Full subject Test: Concrete structures |
| 46 | 23.6.2020 | Surveying: 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 | Full subject Test: Surveying |
| 50 | 27.6.2020 | <p>Combination Test – 5</p> <ol style="list-style-type: none"> 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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