MADURA COACHING
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TNEB | TRB – ONLINE TEST SERIES SCHEDULE- 2020

MECHANICAL ENGINEERING

S. No	Activation Date	Syllabus
1	27.4.2020	**Thermodynamics:** Basic concepts, Heat and Work, First law of TD
2	28.4.2020	Second law of TD, Entropy, Availability
3	29.4.2020	Gas turbine, Air Standard cycle
4	30.4.2020	Pure Substances, Vapour power cycle, Refrigeration cycle
5	1.5.2020	Psychromerty, Thermodynamic Relations, Air compressor
6	2.5.2020	**Full Subject Test of Thermodynamics**
7	4.5.2020	**Heat and Mass Transfer:** Conduction, Fins, Transient Heat conduction
8	5.5.2020	Convection, Radiation, Heat Exchangers, Mass transfer**
9	6.5.2020	**Full Subject Test of Heat and mass transfer**
10	8.5.2020	**Fluid mechanics:** Properties, Pressure Measurement, Hydrostatic Force
11	9.5.2020	Fluid Kinematics, Buoyancy and Floatation
12	10.5.2020	Fluid Dynamics, Boundary Layer Theory, Laminar flow, Turbulent flow
13	11.5.2020	Turbo Machinery
14	12.5.2020	**Full Subject Test of Fluid mechanics**
15	14.5.2020	**Production:** Casting
16	15.5.2020	Welding
17	16.5.2020	Metal forming, Sheet Metal Operation
18	17.5.2020	Metal Cutting
19	18.5.2020	Machining and Machine Tool Operations
20	19.5.2020	Metrology and Inspection
21	20.5.2020	Non-Traditional Machining Processes, Computer Integrated Manufacturing: Basic concepts of CAD/CAM and their integration tools. Jigs and Fixtures
22	21.5.2020	**Full Subject Test of Production**
23	23.5.2020	**Industrial Management and Operational Research:** PERT and CPM. Linear programming
24	24.5.2020	Inventory Control, Forecasting
25	25.5.2020	Queuing theory

26	26.5.2020	Transportation and Assignment models, Sequencing and Scheduling
27	27.5.2020	Aggregate Planning and Materials Requirement Planning, Break Even Analysis
28	28.5.2020	**Full Subject Test of Industrial Management and Operational Research**
29	30.5.2020	**Material Science:** Properties, Testing and stress-strain diagrams for engineering materials. Atomic Structures, Phase Diagrams(Iron -Carbide diagram)
30	31.5.2020	Heat Treatment process, Powder Metallurgy and Plastics
31	1.6.2020	**Full Subject Test of Material Science**
32	3.6.2020	**Engineering Mechanics:** Basics and Statics of particles, Equilibrium of Rigid bodies and Free body diagrams, Virtual Work
33	4.6.2020	Trusses and Frames, Dynamics of particles and Impact of elastic bodies and Collisions, Friction
34	5.6.2020	**Full Subject Test of Engineering Mechanics**
35	7.6.2020	**Strength of Materials:** Simple Stresses and Strains, Complex Stresses and Strains
36	8.6.2020	SFD & BMD, Bending and Shear stresses, Torsion of circular shafts
37	9.6.2020	Strain Energy, Deflection of Beams, Thin cylinders
38	10.6.2020	Euler's theory of columns, Springs, Centroids and Moment of Inertia
39	11.6.2020	**Full Subject Test of Strength of Materials**
40	13.6.2020	**Theory of Machines:** Planer mechanisms, Dynamic analysis of linkages
41	14.6.2020	Flywheels, Gears and Gear Trains
42	15.6.2020	Balancing, Governor, Gyroscope
43	16.6.2020	Cams, Vibration
44	17.6.2020	**Full Subject Test of Theory of Machines**
45	19.6.2020	**Machine Design:** Static and Dynamic loading (Failure Theories)
46	20.6.2020	Design of Riveted , Bolted and welded joints, Design of Brakes and Clutches
47	21.6.2020	Design of Shafts, Gears, Rolling and Sliding Contact Bearings
48	22.6.2020	**Full Subject Test of Machine Design**
49	24.6.2020	**Automotive Engines**:** Engine Construction and Operation, SI Engine Fuel System, Cooling and Lubrication system, combustion and combustion chambers, Two stroke engines
50	25.6.2020	Diesel engine basic theory, Fuel Injection system, Air Motion, Combustion and combustion chambers, Superchanging and turbo charging, diesel engine testing and performance.

51	26.6.2020	**Full Subject Test of Automotive Engines**
		Multi Subject Grand Test-1
52	# #	Strength of Materials , Engineering Mechanics
53	# #	Theory of machines ,machine design
54	# #	Thermodynamics, material science
55	# #	Heat and Mass Transfer, fluid mechanics
56	# #	production, Industrial Management and Operational Research
		Full length Mock Test Series 1
57	# #	Full length mock test-1
58	# #	Full length mock test-2
59	# #	Full length mock test-3
60	# #	Full length mock test-4
61	# #	Full length mock test-5
		Multi Subject Grand test-2
62	# #	Strength of Materials , Engineering Mechanics, Theory of machines ,machine design
63	# #	Production, Industrial Management and Operational Research, material science
64	# #	Thermodynamics, Heat and Mass Transfer, fluid mechanics
		Full length Mock Test Series 2
65	# #	Full length mock test-6
66	# #	Full length mock test-7
67	# #	Full length mock test-8
68	# #	Full length mock test-9
69	# #	Full length mock test-10
	Note:	* -->only for TRB **--> only for TNEB remaining --> For both TRB and TNEB

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

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