



TNEB- AE ONLINE TEST SCHEDULE-2020

ELECTRICAL ENGINEERING

Test No	Subject	Topics
Unit 1	Circuit Theory	Circuit Basics, KCL, KVL, Nodal, Mesh
Unit 2		Network theorems
Unit 3		Resonance and Transients
Unit 4		2-port network & 3 phase network
		Full Test
Unit 1	Control Systems	Feedback, Block Diagram signal flow graph
Unit 2		Time domain analysis
Unit 3		RH & Root locus methods
Unit 4		Frequency response
Unit 5		State space Analysis, Compensators & controllers
		Full Test
	Maths	Matrix
Unit 1	Digital Logic Circuits	Number systems, Logic gates
Unit 2		Combinational circuits
Unit 3		Sequential Circuits
Unit 1	Digital Signal Processing	Basic Operations on Signals
Unit 2		Z-Transform
Unit 3		Laplace Transform
Unit 4		Fourier Transform
Unit 1	EMT	Vector Calculus
Unit 2		Electrostatics, Magnetostatics
	Maths	Complex Variables
Unit 1	Electrical Machines	Transformers
Unit 2		Induction Machines
Unit 3		DC machines
Unit 4		Synchronous Machines
		Full Test
	Maths	Numerical Methods



Unit 1	MPMC	Microprocessors
Unit 2		Microprocessors & Microcontrollers
Unit 1	Communication Engineering	Modulation & Demodulation
Unit 2		Electromagnetic waves
Unit 3		Digital Communication
Unit 4		Satellites & Optical Fibres
		Full Test
	Maths	Calculus
Unit 1	Power Systems	Cables & Surges,
Unit 2		Corona & Insulators
Unit 3		Fault analysis & PU systems
Unit 4		Generation & Transmission
Unit 5		Load flow & economic consideration
Unit 6		Protection
Unit 7		Stability
	Full Test	
Unit 1	Power electronics	BJT MOSFET DIODE rectifier and controlled rectifier
Unit 2		Choppers & Inverters
		Full Test
	Maths	Probability
Unit 1	Computer Networks	Data networks-switching OSI, Data link control, Media access protocol-BISYNC, SDLC, HDLC, CSMA/CD,
Unit 2		TCP/IP Bridges, routers, gateways, Ethernet and Arcnet configuration.
		Full Test
	Maths	Differential Equations
<p>Schedule for Basic Science and Engineering will announced later</p> <p>Once all the Subjects are over, full tests will start.</p>		