

IES MASTER

Institute for Engineers (IES/GATE/PSUs)

SSC-JE MAINS TEST SCHEDULE

ELECTRICAL ENGINEERING

Date	Topic
TEST-1	N.T.: CT-1, EM-1
2nd Aug. 2021	R.T.:
TEST-2	N.T.: CT-2, EM-2
8th Aug. 2021	R.T. : CT-1, EM-1
TEST-3 16th Aug. 2021	N.T.: CT-3, EM-3
	R.T. : CT-2, EM-2,EM-1
TEST-4 22nd Aug. 2021 TEST-5 29th Aug. 2021	N.T.: EM-4
	R.T. : CT-3, EM-3, CT-1, EM-2 N.T. : MC
	R.T. : EM-4, CT-2, EM-3
TEST-6 5th Sept. 2021	N.T.: GTD-1, MI-1
	R.T. : CT-3, EM-4, MC
TEST-7 12th Sept. 2021	N.T. : GTD-2, MI-2
	R.T.: GTD-1, MI-1, CT-1, CT-2
TEST-8	N.T. : GTD-3, MI-3
19th Sept. 2021	R.T.: GTD-2, MI-2, CT-3, EM-1, MC
TEST-9	N.T.: BEX
26th Sept. 2021	R.T. : GTD-3, MI-3, CT-1, EM-2, MI-1
TEST-10 3rd Oct. 2021	N.T.: UEE
TEST-11 10th Oct. 2021	R.T. : BEX, GTD-1, GTD-2, CT-2, EM-3, MI-2 N.T. : E&C
	R.T. : UEE, GTD-3, CT-3, EM-4, MC, BEX, MI-3
TEST-12 17th Oct. 2021	Full Length Test-1
TEST-13 24th Oct. 2021	Full Length Test-2
TEST-14 31st Oct. 2021	Full Length Test-3
TEST-15 7th Nov. 2021	Full Length Test-4

Test Type Timing

SSC-JE Mains Test ______ 10:00 A.M. to 12:00 P.M.

Note: The timing of the test may change on certain dates. Prior information will be given in this regard.

*N.T.: New Topic. *R.T.: Revision Topic
Call us: 8010009955, 011-41013406 or Mail us: info@iesmaster.org

Subject Code Details

	CT-1		CT-2		CT-3				
Circuit Theory (CT)	Concept of resistance, inductance, capacitance, various factor affecting them, Concepts of current, voltage, power, energy and their units, Kirchhoff's law, Simple circuit solution using network theorems		Instantaneous, Peak, RMS and average values of alternating waves, Representation of sinusoidal wave form, DC and sinusoidal response of RL and RC circuit		es, /e	Simple series and parallel AC circuits consisting of R,L, and C, Resonance, Tank circuit, Poly phase system-star and delta connection , 3 phase power			
Magnetic	MC								
Circuit		materials, Magnet and Solenoidal.	terials, Magnetic calculations for I Solenoidal.						
Measurement	MI-1		MI-2			MI-3			
and measuring instruments	Measurement of power(1 phase, both active and re energy, 2 wattmeter method power measurment, energy)	active) and coil and moving iron od of 3 phase range wattmeter, m		n type), extension of Generator, Coultimeters, megger Earth fault det		Generator, CT, Earth fault detect	use of CRO, Signal T, PT and their uses , ection, Measurement of and phase angle		
	EM-1	EM-1 EM-2 E		EM-	-3	EM-4			
Electrical Machines		transformer Principle equivalent regulation, O Losses and voltage, freform on losse of 1 phase /3	and 3 phase rs – Construction, rs of operation, t circuit, voltage .C. and S.C. Tests, efficiency. Effect of quency and wave s. Parallel operation phase transformers. application 3 phase induction n magnetic field, princi equivalent circuit, characteristics, star control of 3 phase in Methods of braking, and frequency varia speed characterist Kilowatt Motors and Induction Motors: Ch. application			ciple of operation, torque-speed rting and speed nduction motors. effect of voltage iation on torque stics. Fractional and Single Phase maracteristics and	Generation of 3- phase e.m.f. armature reaction, voltage regulation, parallel operation of two alternators, synchronizing, control of active and reactive power. Starting and applications of synchronous motors.		
	GTD-1		GTD-2			GTD-3			
Generation, Transmission and Distribution	Different types of power stations, Load factor, diversity factor, demand factor, cost of generation, inter-connection of power stations.	tariffs, type symmetrica distribution materials	Power factor improvement, various types of tariffs, types of faults, short circuit current for symmetrical faults, various transmission and distribution system, comparison of conductor materials, efficiency of different system. Cable – Different type of cables, cable rating and derating factor. Switchgears – rating of circuit current for breakers, Principles of arc extinct and air, H.R.C. Fuses, Protection earth leakage / over current, etc. relay, Merz-Price system of protection generators & transformers, protection feeders and bus bars Lightning				arc extinction by oil , Protection against rrent, etc. Buchholtz em of protection of mers, protection of		
Estimation	E&C								
and costing	Estimation of lighting scheme, electric installation of machines and relevant IE rules. Earthing practices and IE Rules.								
Utilization		UEE							
of electrical energy	Illumination, Electric heating, Electric welding, Electroplating, Electric drives and motors.								
	BEX								
Basic electronics	Working of various electronic devices e.g. P N Junction diodes, Transistors (NPN and PNP type), BJT and JFET. Sin circuits using these devices.								

For Any Query Regarding The Program

Call us: 09711853908, 011-41013406 or Mail us: cqpp.iesmaster@gmail.com