GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII • EXAMINATION – SUMMER • 2015

Subje	ect o	code: 180901 Date:15/05/	2015
•		Name: Commissioning of Electrical Equipment 30AM-01.00PM Total Mark	ks: 70
Instructions:			
	1.	Attempt all questions.	
	2.	Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	J1	07
		connecting them in parallel with reason	
	(b)	Explain polarity test of power transformer	07
Q.2	(a)	Explain meaning of insulation resistance. How is it measured for power transformer	07
	(b)	Define a burden on a CT. What are the markings on primary & secondary terminal CTs? How the polarity of CT is determined.	07
		OR	
	(b)	Explain various troubles, causes & remedies of 3 phase induction motors	07
Q.3	(a)	What is 'slip' of an Induction motor? How can you measure the slip of an induction Motor?	07
	(b)	Explain starting test & No load test on 3-phase induction motor. OR	07
Q.3	(a)	Explain Back to back test on DC Machine	07
	(b)	•	07
Q.4	(a)	Explain how to check cable fault by means of a Megger & discuss murray loop method for locating cable faults	07
	(b)		07
Q.4	(a)	Explain no load mechanical operation test & Mechanical (Endurance) test on circuit breaker.	07
Q.4	(b)	Explain open circuit test & short circuit test on a synchronous machine.	07
Q.5	(a)	Explain power frequency voltage withstand test, impulse voltage withstand test & vibration test on busbar	07
	(b)	What is Earth resistance of earthing system? Explain procedure of earth- resistance measurement of an earth electrode. What are the maximum permissible values?	07
OR			
Q.5	(a) (b)	•	07 07

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