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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII (OLD) EXAMINATION – SUMMER 2019

Subject Code: 180901	Date: 15/05/2019
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Subject Name: Commissioning of Electrical Equipments

Time: 10:30 AM TO 01:00 PM **Total Marks: 70**

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

Q.1	(a)	Define Routine test & Type test. List out the different types of routine test performed on power transformer.	07
	(b)	Explain polarity test of 3-phase transformer.	0′
Q.2	(a) (b)	Define polarization index number. Which information is available from it? Explain the drying out procedure of static machine.	07 07
	(b)	OR Explain the mechanical endurance test performed on circuit breaker.	07
Q.3	(a)	List out the different types of test performed on D.C. Machine to know the performance of it. Explain any Swinburne's test.	07
	(b)	Explain the speed control methods of 3-phase induction motor. OR	07
Q.3	(a)	Explain the High voltage test of power transformer.	07
	(b)	Explain the test for measurement of insulation resistance of 3-phase power transformer.	07
Q.4	(a)	Explain Hopkinson's test of d.c. machine	07
	(b)	Explain the temperature rise test of 3-phase induction motor. OR	07
Q.4	(a)	Explain the different methods to measure the earth resistance.	0′
	(b)	State the conditions of parallel operation of two alternators. Explain the dark lamp method with circuit diagram.	07
Q.5	(a)	Explain different methods of cooling of power transformer.	0′
	(b)	Explain the Murry-Loop Test for the location of cable fault. OR	07
Q.5	(a)	Define slip of an induction motor. Explain the different methods to measure the slip of an induction motor.	07
	(b)	Define burden of a CT. Explain how polarity test is carried out on CT?	07

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