Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-VIII • EXAMINATION – SUMMER • 2014

Su	bject	t Code: X 80901 Date: 27-05-2014	
	-	Name: Commissioning of Electrical Equipments	
	me: J tructio	10:30 am - 01:00 pm Total Marks: 70	
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	What is Polarization Index? What is importance of it? Explain briefly. What is the significance of partial discharge measurement and Tan Delta test in case of transformer?	07 07
Q.2	(a)(b)	Explain noise measurement, vibration measurement and slip measurement in case of 3 phase induction motor. Explain with sketch any one method of neutral grounding.	07
	(b)	OR Write a short note on design of earthing grid.	07
Q.3	(a) (b)	Explain short circuit test for circuit breaker. State the advantages and disadvantages of I.R. Thermography. OR	07 07
Q.3	(a) (b)	Explain troubleshooting of circuit breaker. Explain the inspection of Sf6 circuit breaker using infrared thermograph instrument.	07 07
Q.4	(a) (b)	Explain the testing procedure in Swinburn's test. Explain how to check the performance of D.C. motor form Swinburn's test. What is need of drying out test? What are the different methods for drying out? Explain one method. OR	07
Q.4	(a) (b)	Explain Field test on D.C. machine with appropriate circuit diagram. What are the objectives of preventive maintenance of D.C. machine.	07 07
Q.5	(a) (b)	Describe insulation resistance test on synchronous machine. Explain commissioning steps for synchronous machine. OR	07 07
Q.5	(a)	What are the different methods for finding out cable faults? Explain any one of them.	07
	(b)	Explain the tests before the commissioning of cable.	07
