		GUJARAT TECHNOLOGICAL UNIVERSITY PDDC - SEMESTER-VIII • EXAMINATION – SUMMER 2013	
Subject Code: X80901 Date: 09-05-2013 Subject Name: COMMISSIONING OF ELECTRICAL EQUIPMENTS Time: 10.30 pm - 01.00 pm Total Marks: 70 Instructions:			
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
Q.1	(a) (b)	Explain steps for commissioning of a transformer. Explain the insulation resistance testing of a transformer.	07 07
Q.2	(a) (b)	Explain different methods to measure the slip of induction motor. Explain different types of maintenance of 3 phase induction motor. OR	07 07
	(b)	What is induction generator? State its commissioning procedure.	07
Q.3	(a) (b)	Explain the points of testing and commissioning of a substation. Give comparison between different types of neutral grounding. OR	07 07
Q.3	(a) (b)	Explain working of ELCB. What is the different tests performed on it? Explain Swinburne's test for D.C. machine.	07 07
Q.4	(a)	Explain step by step procedure for locating the earth fault in the field winding of a D.C. machine.	07
	(b)	Explain the importance of O.C.test and S.C. test of a 3 phase synchronous generator.	07
Q.4	(a)	OR State the causes for vibration in motors and generators. Explain the harmful	07
Q.T	(u)	effects of vibration. How are the vibrations measured?	07
	(b)	Describe insulation resistance measurement test on a synchronous machine.	07
Q.5	(a)	Drawing a suitable diagram explain fault finding in cable by Murray loop test. Which type of fault can be found by Murray loop test?	07
	(b)	Explain H.V. testing of a cable. OR	07

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(b) Explain with the help of necessary diagrams the various types of tests

Q.5 (a) What is the significance of polarity in case of C.T.? How can we test the

polarity of Current transformer?

performed on high voltage circuit breaker.