Seat No.:	Enrolment No

## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## PDDC- SEMESTER II- • EXAMINATION -WINTER- 2016

Subject Code: X 20902 Subject Name: Electrical Measurement I&II			Date:03/01/2017	
Ti	ime:(struct	02:30 PM to 5:00 PM Total Marks: 70		
Q.1	(a) (b)	Explain Maxwell's bridge for measurement of self inductance.  Discuss Wheatstone bridge for measurement of low resistance.	07 07	
Q.2	(a) (b)	Explain working principle of megger.  Explain how frequency can be measured using an a.c. bridge.  OR	07 07	
	<b>(b)</b>	Explain measurement of capacitance by any a.c. bridge.	07	
Q.3		Discuss with neat diagram the DC potentiometer-Crompton potentiometer with its calibration and test procedure.	14	
Q.3	(a) (b)	OR Discuss the different methods of damping in indicating instruments. Explain construction and working of D'Arsonval galvanometer	07 07	
Q.4	(a) (b)	Explain construction and working of PMMC type voltmeter. Explain terms: (1) Accuracy (2) Precision (3) Sensitivity (4) Resolution  OR	07 07	
Q.4	(a)	Explain method of measuring power in a three phase circuit using two wattmeter method.	07	
	<b>(b)</b>	Write technical note on digital VTVM.	07	
Q.5	(a) (b)	Explain construction and working of induction type energy meter.  State the different methods of measuring medium resistances. Explain any one method in brief.	07 07	
		OR		
Q.5	(a) (h)	Explain loss of charge method for resistance measurement.  Write technical note on tri vector meter.	07 07	

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