QP Code: 5223

Time: 3 Hours	MM: 80 Marks
Note: 1. Attempt four questions, question no 1 is compulsory. 2. Assume suitable data where ever required. 3. Answers to the questions should be grouped together. 4. Figure to the right of question indicates full marks.	
Q1) Attempt any four:	(20)
a) Significance of four and half digit display	
b) Discuss Megger for measurement of very high resistance.	
 c) Explain working of strain gauge and its application in load d) Explain working of thermocouple and mention its range e) Explain error in measurement and methods of error mining f) A galvanometer, with a 1 mA full scale deflection and an of 500 Ω, is to be used as voltmeter, find series resistance 	imization internal resistance
ranges.	
Q2 a) Draw and explain working of capacitive transducer for level b) Draw neat block diagram of CRO and explain its functioning, c delay line in CRO.	
Q3 a) Discuss DSO with the help of block diagram along with vari	ous modes of
operation also explain its applications.	(10)
b) Explain LVDT and define its application in displacement measures	urement. (10)
Q4 a) Explain Hetrodyne type waves analyser and its applications	s. (10)
b) Draw and explain Weighted resistor network type DAC for 3 bi	ts input taking
suitable example.	(10)
Q5 a) Draw and explain Schering bridge and drive expression for capacitance.	measurement of (10)
b) Define power and energy and explain working of a single phase	, ,
Q6 a) Draw and explain Wheatstone bridge and drive expression of resistance.	n for measurement (10)
b) Explain Flash type 3 bit ADC with the help of block diagram an	
speed.	(10)