8/12/14.

[Total Marks: 80

10

QP Code:14653

		(3 Hours) [Total Marks	: 80
N		:(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.	
1.	Atte	empt any five :—	20
		 (a) Why wave analyzer is known as frequency selective voltmeter? (b) Define accuracy, precision and sensitivity with suitable example. (c) General specifications of Digital Multi-meter. (d) List various sensors for pressure and temperature along with their ranges. (e) List name of bridges for RLC measurement with proper classification. (f) Significance of three and half digit display. 	
2.	(a) (b)		10 10
3.	(a)	Draw and explain Weighted resistor network type DAC for 3 bits input taking suitable example.	10
	(b)	Explain Kevin's double bridge and its application in very low resistance measurement.	10
4.	(a)	Explain dual slop integration type ADC with the help of block diagram and comment on its speed.	1(
	(b)	Explain LVDT and define its application in displacement measurement.	10
5.	(a) (b)	Explain Hetrodyne type wave analyser and its applications. Discuss DSO with the help of block diagram along with various modes of operation. Also explain its applications.	1(1(
6.	(a)	Draw and discuss Maxwell Bridge and its application for measurement of inductance.	1(

(b) Define Q factor and explain working of a Q meter for Q factor measurement.