Q.P. Code: 545502

	(3 Hours) [Total Marks	: 80
N.B. :	 Attempt four questions, question no 1 is compulsory. Assume suitable data where ever required. Answers to the questions should be grouped together. Figure to the right of question indicates full marks. 	
(1 (1 (0	tempt any four: 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 name of bridges for RLC measurement with proper classification. e) Significance of three and half digit display.	20
2. (a)	What is eddy current sensor? Explain measurement of current using it.	10
(b)	5	10
3. (b)	Draw and explain Weighted resistor network type DAC for 3 bits input taking suitable example.	10
(b)		10
4. (a)	Explain dual slop integration type ADC with the help of block diagram and comment on its speed.	10
(b)	x2.34(19) 42 44 30 45 24 35 46 46 47 46 24 47 47 48 48 48 48 48 48 48 48 48 48 48 48 48	10
5. (a)	Explain Hetrodyne type waves analyser and its applications.	10
(b)	Discuss DSO with the help of block diagram along with various modes of operation also explain its applications.	10
6. (a)	Draw and discuss Maxwell Bridge and its application for measurement of inductance.	10
(b)	Define Q factor and explain working of a Q meter for Q factor measurement.	10