Max Marks: 80 Du	ration : 3Hrs
N.B1] Question no.1 is compulsory 2] Attempt any three from remaining	
 Q 1.Attempt any four questions a) Define Accuracy, Precision, Linearity, Sensitivity, Resolution b) Write applications of Q-Meter c) Explain Role of Delay Line in CRO d) Write Selection Criteria of Transducers. e) Write brief information of Programmable Logic Controller f) List pressure, level and flow transducers 	[20]
 Q 2.Attempt the following questions a) Draw and Explain Measurement of Inductance using Maxwell Bridge b) Draw and Explain Measurement of Low and High Resistance using, Kel Bridge and Mega ohm Bridge 	[20] lvin's Double
Q 3.Attempt the following questions	[20]
a) Draw and Explain Digital Storage Oscilloscope (DSO) also write applicab) Draw and Explain Lissajous Figures in Detection of Frequency and Ph	
 Q 4.Attempt the following questions a) Compare RTD, Thermisters, Thermocouples- with their construction, Ra Applications b) Draw and Explain any one application of Linear Variable Differential T 	-
	[20]
Q 5.Attempt the following questionsa) Draw and Explain Capacitance type method for level measurement .wn disadvantages it.	
 b) Draw and Explain Rotameter for flow measurement. write advantage disadvantages of it 	es and
 Q 6.Write a short note on a) Elastic Pressure Transducers b) Data acquisition system (DAS)- Single channel c) Errors in Measurement 	[20]

d) Auto Ranging and Auto Zero Adjustments in Digital Instruments.