Γime: 3 Hrs		Marks: 8	
Que 1.	Attempt ant four		
a.	Draw Hay's bridge. List applications of it.	5	
b.	List static and dynamic characteristics of instruments	5	
c.	Explain Generalized data acquisition system in brief	5	
d.	Draw front panel of CRO	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
e.	List different types of transducers with their applications		
Que 2.	Attempt the following		
a.	Draw and Explain Ultrasonic transducer for level measurement	10	
b.	Draw and Explain LVDT .Write advantages, disadvantages and applications of it.	10	
Que 3.	Attempt the following	6	
a.	List flow meters. Draw and Explain magnetic flow meter. What are its limitations?	10	
b.	Compare RTD ,thermocouple and thermistor with construction ,working and applications	10	
Que 4.	Attempt the following		
a.	Draw and Explain Kelvin double bridge for resistance measurement. Wri advantages of it.	te 10	
b.	Draw and Explain Schering bridge for capacitance measurement	10	
Que 5.	Attempt the following		
6a. 5	Draw and Explain the measurement of phase and frequency with Lissajou figures.	ıs 10	
b .	Draw and Explain block diagram of CRO. Explain need of delay lines.	10	
Que 6.	Attempt the following		
a. 3	Data logger	6	
b .	Strain gauge transducer	8	
-6. 13	FET type voltmeter	6	
