M.Sc. Semester-1 (C.B.C.S. Scheme) Examination 1ELE2 : ELECTRONICS

(Instrumentation and Measurement Techniques)

Time : Three Hours] [Maximum			farks : 80		
Note:—(1) All questions are compulsory.					
		(2) Draw well labelled diagrams wherever necessary.			
1.	(a)	What is printer character set and explain drum printer.	6		
	(b)	Explain construction and working of LED.	4		
	(c)	Explain touch screen display.	6		
	OR				
	(p)	Explain the working of dot-matrix printer.	4		
	(q)	Explain construction and working of LCD.	4		
	(r)	Give the classification of display devices and explain any one of them.	8		
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2.	(a)	What are digital instruments? Explain digital multimeter with suitable diagram.	8		
	(b)	Explain working of digital Tachometer.	8		
	OR				
	(p)	Explain the digital pH-meter with block diagram.	8		
	(q)	Explain microprocessor based instrumentation system.	8		
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3.	(a)	Explain the signal generator in detail.	8		
	(b)	Draw and explain internal structure of CRT.	8		
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	(p)	Draw and explain block diagram of ramp type digital voltmeter.	
	(q)	Draw and explain function of each block of spectrum analyser.	
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4.	(a)	Draw and explain the block diagram of signal conditioning.	
	(b)	Discuss in detail the construction and working of LVOT.	
	OR		
	(p)	Describe temperature transducers.	{
	(q)	Explain the working of strain image as a mechanical transducer.	
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5.	(a)	Draw and explain cavity wave meter.	(
	(b)	Explain the use of CRO for measurement of amplitude modulation.	
	OR		
	(p)	Explain any one of intermodulation method of measuring non-linear distortion.	8
	(a)	Explain the measurement of frequency response in audio amplifier.	5