M.Sc. (Part—I) Semester—I (C.B.C.S. Scheme) Examination ELECTRONICS

1-ELE-2: Instrumentation and Measurement Techniques

Time: Three Hours]			imum Marks : 80
	Note	e:— All questions are compulsory and carry equal marks.	
	EITHER		
1.	(a)	Explain dot-matrix impact and non-impact printers.	6
	(b)	Explain construction and working of LED.	4
	(c)	List various display devices and give details of any one of them.	6
	OR		
	(p)	Explain working of touch screen.	6
	(q)	Describe construction and working of LCD.	6
	(r)	Explain what is printer character set.	4
	EIT	HER	
2.	(a)	Draw and explain digital frequency meter.	8
		Draw and explain digital phase meter.	8
	OR		
	(p)	Explain microprocessor based instrumentation system.	8
	(q)	Explain (with principle) the digital capacitance meter.	8
EITHER			
3.	(a)	List the uses of CRO and explain the working of CRT with internal stru	
	(b)	Draw and explain the block diagram of spectrum analyzer.	8
	OR		
	(b)	Draw and explain the ramp type digital voltmeter.	8
	(q)	Give the detailed explanation of signal generator.	8
		THER	
4.	(a)	Draw and explain the block diagram of signal conditioning.	8
	` ′	Describe temperature transducers.	8
	OR		O
	(p)		8
	(q)	Describe LVDT in detail.	8
-		THER	o
5.	(a)	Explain the measurement of non-linear distortion using any one method.	
	(b)	•	8
	OR (7)		O
	(p)		8
	(q)		8
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