## **OLE-24226**

## B. Tech. 5th Semester (EEE) Examination – April, 2021

## ELECTRONIC MEASUREMENT AND INSTRUMENTATION

Paper: EE-339-F

Time: Three Hours [ Maximum Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

- Note: Attempt five questions in all. Question 1 is compulsory. Attempt four more question, Sections A, B, C & D by selecting at least one question from each section.
  - **1.** (i) Explain the principle of secondary emission in analog storage oscilloscope.  $4 \times 5 = 20$ 
    - (ii) Draw and explain block diagram of an AC differencial voltmeter.
    - (iii) Explain liquid crystal diode(LCD).
    - (iv) Draw the block diagram of DC signal conditioning system.

## SECTION - A

2.	Draw the internal structure of cathod ray tube (CRT and explain about its main parts.											
3.		v and rator.	expl	ain bl	эck	diag	ram	of	a	func	tion 20	
	SECTION – B											
4.	Classify vaccum tube voltmeters and discuss about advantages of electronic voltmeters. 20											
5.	(a)	Explain	deca	de cour	nting	g asse	mbly	(DC	CA).	·	10	
	(b)	Explain	Ferro	dynam	nic t	ype fr	eque	ncy 1	met	er	10	
	SECTION - C											
6.	(a)	Explain	Nixie	tubes.							10	
		Explain transdu		factor	s ir	ıfluer	ncing	the	cl	hoice	of 10	
7.	Explain the construction and output measurement of a thermocouple. 20											
	SECTION - D											
8.	Draw and explain the block diagram of AC signal conditioning system.											
9.	Disc		ta a	cquisiti	on	and	con	versi	ion	sys	tem 20	