SUBJECT CODE NO: - Y-2237

FACULTY OF SCIENCE AND TECHNOLOGY

B. Sc. (PATTERN-2013) (T.Y SEM VI)

Examination April / May - 2024

		Electronics Paper-X	IX (Instrumentation)	
[Tim	e: 1:3	30 Hours]	Sector (d) Cyw	[Max. Marks: 50]
		Please check whether you have	ve got the right question pa	
		li sons a Oreige is balm Ogr	n of Amiros lot supply as inv	rishov) (8
N. B		1) Attempt all questions.	Visce no Operent flows	
		Maria Huonya 6	From the teleparature of the	
Q.1	/a)	Explain the working of LED displ	lay.	10
	(b)	With neat diagram explain X-Y re	ecorder.	APV 10
	A PAY	awan-).	OR	
	a)	What is static error? Explain types	s of static error.	10,340
	b)	Explain atomic frequency and tim	e standards.	10
Q.2	a)	With the help of neat diagram exp	lain FM recording,	10
	b)	Describe the working and constru-	ction of LCD display	10
		A Committee of the comm	OR	
		Write short notes on any four.	A A A A A A A A A A A A A A A A A A A	20
	a)	Resistance temperature detector (I	RTD)	
	b)	Photo conductive cell	PROKOTQUE DAN WOMOL MD. PA	
	c)	Pizo-Electric transducer	Talling History	
	d)	LCD display		
	e)	Thermister		Secondaria de la compansión de la compan
,	f)	Resistance thermometer		
	1		Promings	
Q.3 A	Atten	npt the following by selecting corn	ect answer from given or	otion. 10
	1)	Which of the following essential for	HOUSENSON HOUSE HOUSE HER HOUSE HOU	
		instrument?		r vogen er voge
	101	a) Deflecting device	b) Controlling device	
		c) Damping device	d) All of the above	
	2)	A potentiometer may be used for		
		a) Measurement of resistance	b) Measurement of	current
		c) Calibration of ammeter	d) All of the above	
		southern a C		

3)	Switching time of LEDs is of the order of						
	a) ls b) lms	c) Ins	d) lµs				
4)	The X-Y recorder uses	variables to positioning	g of head.				
	a) Two b) Three	c) Four	d) Five				
5)	Under which of the following conditions a bridge is balanced?						
	a) When no current flows						
	b) When the temperature of the circuit is high						
	c) When power dissipation is high						
	d) When no voltage drop act	ross the circuit	1				
	450		(vi LIBRARY)				
6)	Self-generating transducers are	transducer	S. Z				
	a) Positive	b) Active	AMA1393				
	c) Secondary	d) Inverse					
7)	Which of the following is not a	characteristic of an idea	al transducer?				
")	Which of the following is not a characteristic of an ideal transducer? a) High dynamic range b) Low linearity						
	c) High repeatability	d) Low					
	c) mgn repeatability						
8)	Which of the following represen	at active transducer?	orgoniisme (2 (c.)				
	a) Strain gauge	b) Thermistor					
	c) LVDT	d) Thermocouple	DENERAL PROPERTY				
			The Court of				
9)	Which of the following is an ana	alog transducer?	THE RECEIPTED A SOLL				
athens,	a) Encoders	b) Strain gauge					
	c) Digital tachometers	d) Limit switches	Annual Control of the				
		Annual An					
10)What is the principle of operation						
	a) Mutual inductance	b) Self-inductance					
	c) Permanence	d) Reluctance					
			or to this little to the				