Total No. of Printed Pages: 02

SUBJECT CODE NO:-B-2171 FACULTY OF SCIENCE & TECHNOLOGY

B.Sc. T.Y. (Sem-VI)

Examination November/December- 2022 Electronics Paper- XIX (601) (Instrumentation)

[Time: N.B	1:30 Hours] "Please check whether you have got the right question paper"	Max. Marks:50
11.2	Trouse eneat whether year have get also right question paper	
	1) Attempt all questions.	
	scribe the static characteristics of an instrument. Explain percentage error and accuracy i asurement.	n 20
	OR aw labeled diagram of X-Y recorder and explain its working. Write five application of X order. Explain five features of digital X-Y plotter.	-Y Color
	plain the principle of inductive transducer. Describe the working of Variable reluctance to assuce with neat diagrams.	type 20
	OR OR	
a) b) c) d) e)	ite short notes on any four of the following. LED displays Photo multiplier tube Dynamic characteristics of measuring instruments. Frequency modulation recorder Resistance thermometer. Load Cell	
Q.3 Att	empt the following, selecting correct option from the given alternatives.	10
1.	In an electrical transducer the relationship between physical parameter and the resulting signal must bea) Sensitive b) accurate c) linear d) none of the above.	electrical
2.	In thermistor, resistance decreases as temperature. a) Decreases b) increases c) both of above d) none of the above.	
3.	The smallest change in a measurement Variable to which instrument will response is a) Error b) sensitive c) resolution d) all of the above.	
4.	In photo conductive Cell the material is a) Cadmium sulphide b) lithium sulphate c) barium trinitrate d) qua	rtz
5.	The piezoelectric transducer usesas sensing element a) Quartz crystal b) Resistance c) capacitance d) thermocouples	

			SELECTION SELECT	B-21
			etilis, stippy	OLEGO,
6. The Ga As mater a) Yellow	ial is doped to produce b) green	colour Ll e) red d) blu		, Step Sep
7. The Load cell is a) temperature	b) displaceme		re d) photo-electric	
8. The photo-transis a) Emitter	tor conducts when light b) collector	falls onc) P-N junctions	d) none of the above	
9. 9) In analogue X-a) Moves in X-c c) moves in X a		head b) moves in Y-direct d) remains fix.	ion	
10. Error that occurs a) Random	due to equally affected b) systematic	measurement is called c) frequent	d) precision	
			Strong St	2 Mari
A Sign Ball	Note in the state of the state		ELINE ELINE	
White Park	iber entries		lege script, script,	
	y Strage Strage		29,000	
Proposed for the propos	AND THE PROPERTY OF THE PROPER	And States		
	S. Start Sta	S. S		
		Ships 39 Arr	N. S.	
		St. Still		
		The state of the s		
By Bry Bry		, 08°CT		
Dalip 28 8 gr	Notice Walter			
HEY SEE				
ASTER ASTER	Bold Militin			
	Agri Res	2		