No. of Printed Pages: 2

BIEE-019

B. TECH.-VIEP-ELECTRICAL ENGINEERING (BTELVI) Term-End Examination June, 2019

BIEE-019: ELECTRICAL INSTRUMENTATION

Time: 3 Hours Maximum Marks: 70

Note: Attempt any seven questions. All questions carry equal marks.

- 1. Discuss the following terms in brief: $5\times 2=10$
 - (a) Resolution
 - (b) Accuracy
 - (c) True value
 - (d) Sensitivity
 - (e) Loading effects
- 2. (a) Define electrical transducer and write merits and demerits of it.
 - (b) Differentiate between recording and integrating measuring instruments. 5
- 3. Explain the working of thermistors and RVDT and also write its applications.

4.	(a)	What is an opto electronic transducer?	5
,	(b)	What are various elements of process control system?	5 5
5.	Disc	cuss the following: 2×	5
	(a)	Land line telemetering system	
	(b)	Radio frequency telemetering system	
6.	Discuss the various components of an analog		
	data	a-acquisition system. 1	0
7 .	(a)	Discuss various types of Digital Displa	ıy
		Units.	5
	(b)	Explain the working of C. R. O. with the	ne
		help of complete block diagram.	5
8.	(a)	Discuss fiber optic transducers in brief.	5
	(b)	Explain working of smart sensors.	5
9.	Write short notes on any two of the following:		
		5	×2
	(a)	X-Y recorders	
	(b)	PID controller	
	(c)	Smart transmitters	
	(d)	LVDT	