

Electronic Instruments and Measurements VTU CBCS Question Paper Set 2018



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USN			15NT44
	L	Fourth Semester B.E. Degree Examination, June/July 20	17
		Electronic Instruments and Measurements	
Tin	ne: 3	8 hrs. Max.	Marks: 80
		Note: Answer FIVE full questions, choosing one full question from each mod	dule.
		Module-1	
1	a.	Write a short note on Probability of errors and limiting errors.	(06 Marks)
	b.	Brief about extending of ammeter ranges.	(04 Marks)
	c.	Discuss on true RMS voltmeter, with the help of a neat circuit diagram.	(06 Marks)
		OR	
2	a.	What is an Error? Mention types of errors.	(04 Marks)
	b.	Describe about Multirange voltmeter and explain how the range of a voltr	(06 Marks)
	0	extended to measure high voltages. Explain differential voltmeter with the help of a neat circuit diagram.	(06 Marks)
	С.		(==,
•		Module-2 Explain the most commonly used principles of ADC.	(08 Marks)
3	a. b.	Describe about the following: i) Digital Tachometer ii) Digital pH meter.	(08 Marks)
	0.	OR	
4	a.	Write a note on Continuous balance DVM.	(04 Marks)
7	b.	What is $3\frac{1}{2}$ - digit display? Write a note on resolution and sensitivity of digital	meters.
	٠.		(04 Marks)
	c.	Discuss about Universal Counter and explain how it works.	(08 Marks)
		Module-3	(0===
5	a.	Explain about simple CRO, with neat sketch.	(05 Marks) (06 Marks)
	b.	Write about the Horizontal Deflecting system. Brief about Fixed and variable AF Oscillator.	(05 Marks)
	C.		(00 1111111)
,		OR	(06 Marks)
6	a.	Discuss about different types of Probes for CRO. Explain about AF Sine and Square wave generator, with a neat sketch.	(10 Marks)
	b.	·	,
_	_	Module-4 Discuss about Q – Meter and state its advantages.	(08 Marks)
7	a. b.	Title 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	υ.	Write a other note on whomasone s strange	(08 Marks)
		OR	
8	a.	Explain how a Phase sensitive detector works.	(08 Marks)
	b.	Describe about Vector Impedance meter with circuit diagram.	(08 Marks)
		Module-5	

- a. Write a short note on Transducers and Actuators. (04 Marks) (06 Marks)
 - b. Brief on Capacitive transducer. e. Explain the working of Photo - transistor, with the help of neat diagrams. (06 Marks)

OR

- With the help of a neat diagram, explain the working of LVDT and mention the advantages 10 (10 Marks) and limitations.
 - b. Explain about piezo electrical transducer, with a neat sketch. (06 Marks)

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