Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages. 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

HNOLOGY

USN

Eighth Semester B.E. Degree Examination, July/August 2021 Virtual Instrumentation

Time: 3 hrs.

Note: Answer any FIVE full questions.

Max. Marks:100

		- 1	(10 Marks)
1	a.	Explain in detail ADC and DAC systems. Explain the important performance parameters for sample and hold circuits.	(10 Marks)
	b.	Explain the important performance parameters	
			(10 Marks)
2	a.	Briefly explain he PC based data acquisition.	(10 Marks)
	b.	Discuss the multiplexing of analog signals.	(10 11111111)
		Explain different strategies for sampling of multichannel analog inputs.	(10 Marks)
3	a.	Explain different strategies for sampling of the sampling of the strategies for sampling of the sampling of the sampling of the sampling of the sampling of	
	b.	i) Timers	(10 Mawko)
		ii) Counters.	(10 Marks)
		1.1.C. Albus and describe each layer in detail.	(12 Marks)
4	a.	Explain the ISO – OSI model for serial bus and describe each layer in detail.	(08 Marks)
	b.	Compare the properties of GPIB, RS – 232 and RS – 485 Interfaces.	
5	0	Discuss the concept of VI's and sub VIS.	(10 Marks) (10 Marks)
3	a. b	1 mi onco ctructure	(10 Marks)
6	a		
		i) Case structures	(10 Marks)
	1	ii) Sequence structures Define array. Explain the operation of 2 dimensional array and 3 dimensional array.	array.
	C	Define array. Explain the operation of 2 difficulty and	(10 Marks)
		LANGE CONTRACTOR CONTR	(10 Marks)
	7 8	a. Describe the procedure to create subVI from existing code.	
	1	b. Write short notes on the following:	
		i) Windowingii) Fast Fourier Transform.	(10 Marks)
		ii) Fast Fourier Transform.	
			(10 Marks)
	8	a. Explain the generation of HTML page.	(10 Marks)
		a. Explain the generation of 1111112 page.b. Briefly explain he simulation of a simple second order system.	(

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