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BICSE-013

PTO

B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

00780

BICSE-013

December, 2017

BICSE-013: REAL TIME SYSTEMS

Time: 3 hours Maximum Marks: 70 **Note:** Answer any **seven** questions. All questions carry equal marks. Define the components of a real time system. 1. Justify your answer with the help of suitable examples. 10 2. What are the basic elements of operating systems? Explain them. 10 3. In contrast with real time systems, explain the concept of system software analysis and design. 10 What is Assembly Language Programming? 4. Explain the different passes used by the assembler to convert the assembly language program into a machine language. 10

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5.	brief	t do you mean by Loader and Linker? Give a description to link a high level program and v level program with the help of a suitable aple.	10	
6.		t is Cost Estimation? Explain the different involved in cost estimation.	10	
7.	Explain and differentiate the following:		10	
	(a)	Task scheduling and Task synchronization		
	(b)	High level and Low level languages		
8.	Explain the following:		10	
	(a)	Execution time of a program		
	(b)	Bus system		
9.	Wha	What is a Sensor? Explain. Also explain binary		
	state support sensor.		10	
10.	Write short notes on the following:		10	
	(a)	Dual Slope Analog-to-Digital Converter		
	(b)	CPU and Memory Board		