No. of Printed Pages: 2

Time: 3 hours

BICSE-013

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

Term-End Examination

00923

June, 2015

BICSE-013: REAL TIME SYSTEMS

Maximum Marks: 70 **Note:** Answer any **seven** questions. All questions carry equal marks. 1. What do you mean by Real time operating system? What are the hardware requirements for real time system? 10 What do you mean by cache coherency? Explain 2. in detail with the help of example. 10 Give the design specifications for a real time 3. system. Also explain the concept of task scheduling in real time system. 10 What is structured flow chart? Give a brief 4. description of step-wise development of a software system. *10*

5.	Diffe prog	t do you mean by programming languages? erentiate between high level and low level ramming languages. Also list the advantages gh level language over low level language.	10
6.	What is the difference between subroutine call and function call? Explain with the help of suitable program.		10
7.	avai	t are the different types of interfaces lable for real time system? Explain D to A A to D conversion interface in detail.	10
8.	Explain the working of signal conditioning circuits with an illustration.		
9.	What is Microprocessor? How is it different from Microcontroller? Explain the different types of addressing modes available with Microprocessor 8085.		10
10.	Write short notes on the following: $4\times 2\frac{1}{2}=10$		
	(a)	DMA	
	(b)	System Software	
	(c)	Machine Language	
	(d)	Flash Converter	