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BICS-009

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

Term-End Examination

00613

December, 2016

BICS-009 : LOGIC DESIGN

Time : 3 hours

Maximum Marks: 70

Note : Attempt any **seven** questions. Each question carries 10 marks.

1.	(a)	Explain the functions of a controller.	5
	(b)	Describe the factors that are considered in the development of virtual devices.	5
2.	What exam	is a thread ? Explain with the help of an ple.	10
3.	requi differ	is a process ? Why is the process concept red by an operating system ? How is it ent from a program ? What are the different s of a process ?	10
4.	(a)	What is a scheduler ? List all the schedulers available along with their working principles.	5
	(b)	What is a semaphore ? What are the types of semaphores ?	5
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Discuss a deadlock prevention strategy to (a) 5. 5 deal with deadlock. How can deadlock be avoided ? Explain (b) 5 with the help of examples. the various memory management 6. Discuss techniques along with their advantages and 10 disadvantages. $2 \times 5 = 10$ Explain the following: 7. Paging system (a) (b) Segmentation system Explain the purpose of working set timing (a) 8. 5 in Windows NT. Compare block and character device files in (b) 5 UNIX. 9. What is a directory ? Explain Single-level Two-level directory. and directory, 10 Tree-structured directory in detail. notes two of the 10. Write short on anv $2 \times 5 = 10$ following: (a) Threads Virtual Memory (b) Authentication and Authorization (c)

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