

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

00394

**Term-End Examination  
June, 2014**

**BICSE-013 : REAL TIME SYSTEMS**

*Time : 3 hours*

*Maximum Marks : 70*

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**Note :** Answer any *seven* questions. All questions carry equal marks.

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1. Define real time system. What are the different components of a real time system ? Explain. 10
2. What are the computer hardware requirements for real time systems ? Explain. 10
3. Write the basic elements of a real time operating system and give the OS facilities. 10
4. What are the specifications of design of real time system ? Explain in detail. 10
5. Explain the concept of response time specifications on human interface. 10
6. Define Software Design. Give the different stepwise development of software design. 10

7. (a) Give the limitations of assembly languages and machine languages. 5
- (b) Give the advantages and disadvantages of high level languages. 5
8. Write short notes on the following :
- (a) Subroutine calls and returns 5
- (b) Subroutine parameters 5
9. What is multiplexer ? Explain output system with continuous actuators. 10
10. Write the characteristics and differences of microprocessor control lines and power supply lines. 10
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