| **BICSE-013** |

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

Term-End Examination

December, 2016

00973

BICSE-013 : REAL TIME SYSTEMS

Time : 3 hours   *Maximum Marks : 70*

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

1. Explain the input and output devices of a computer. What are the different types of memory ?   *10*

2. What are the specifications of design of a real time system ? Explain in detail.   *10*

3. Define software design. Give the different stepwise development of software design.   *10*

4. How do we link high level and low level programs ? Explain with the help of suitable examples.   *10*

5. Describe the following in brief : *2×5=10*

(a) Modular Design

(b) Estimation Cost

6. (a) Draw the diagrams for preliminary system design.

(b) Give the representation for control flow and data flow. *2×5=10*

7. What is a multiplexer ? Explain the output system with continuous actuators. *10*

8. Define an interface. Explain D to A and A to D conversion interface. *10*

9. Explain the concept of response time specification on human interface. *10*

10. Explain any *two* of the following : *2×5=10*

(a) Subroutine calls and returns

(b) Processor background information required

(c) Flash Converter