

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

Term-End Examination

00396

December, 2014

BICSE-013 : REAL TIME SYSTEMS

Time : 3 hours

Maximum Marks : 70

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

1. Write the computer input and output devices.
What are the different selections of memory ? 10
2. (a) What are the different buses ? 5
(b) Explain briefly the cache memory. 5
3. State and explain the factors in selecting a real time operating system. 10
4. What are the design specifications of hardware development and software development ? 10
5. (a) Draw the diagrams for preliminary system design. 5
(b) Give the representations for control flow and data flow. 5

6. What is functional decomposition and what are the relationships among them ? 10
7. Write short notes on the following :
- (a) Processor background information required 5
 - (b) Choosing real-time languages 5
8. How do we link the high level and low level programs ? Explain with suitable examples. 10
9. Define interface and control. Draw and explain parallel output and input interface. 10
10. Explain any *two* of the following : $2 \times 5 = 10$
- (a) Data transfer line
 - (b) Fault tolerant system
 - (c) Flash converter
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