

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

Term-End Examination

00433

June, 2018

BICSE-013 : REAL TIME SYSTEMS

Time : 3 hours

Maximum Marks : 70

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

1. What is a real time system ? What are the components of a real time system ? Give some examples. 10

2. What is an interrupt ? Describe various interrupts and service routines. 10

3. Explain the data transfer factors in selecting a real time operating system. 10

4. Define an interface. Explain digital to analog and analog to digital conversion interface. 10

5. What are functional decompositions and what are the relationships among them ? 10

6. Define interface and control. Draw and explain parallel output and input interface. 10
 7. Define software design. Give the different stepwise development of software design. 10
 8. Write the characteristics and differences of microprocessor control lines and power supply lines. 10
 9. Explain the working of signal conditioning circuits with an illustration. 10
 10. Write short notes on any **two** of the following : $2 \times 5 = 10$
 - (a) Flash Converter
 - (b) Limitation of Assembly Language
 - (c) DMA
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