

**B.TECH. COMPUTER SCIENCE AND
ENGINEERING (BTCSEVI)**

Term-End Examination

December, 2013

BICSE-013 : REAL TIME SYSTEMS

Time : 3 hours

Maximum Marks : 70

Note : Answer any seven questions. Each question carries equal marks.

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1. Explain sensors and transducers. What is signal conditioning ? 10
 2. Briefly explain CPU, momory, RAM and ROM. 10
 3. Explain the data transfer factors in selecting a realtime operating system. 10
 4. Explain the design specifications of a realtime system ? 10
 5. Explain stepwise development and programming in design of a realtime system. 10
 6. Explain machine and assembly languages with examples. 10
 7. List any five high level languages. What are the advantages and disadvantages of high level languages ? 10

8. Define an interface. Explain D to A and A to D conversion interface. 10
 9. Explain output system with continuous actuators. 10
 10. Explain the address and data transfer lines. 10
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