



Module-4

- 7 a. What is an embedded system? Explain any four purposes of embedded system with examples. **(08 Marks)**
- b. Explain any two on board serial communication interfaces in brief. **(06 Marks)**
- c. What are the different types of memories used for program storage in an embedded system design? **(06 Marks)**

OR

- 8 a. Explain the role of Real Time Clock (RTC) and Watch Dog Timer circuit in embedded system. **(08 Marks)**
- b. Explain the classification of embedded system with example. **(06 Marks)**
- c. Explain the role of Application Specific Integrated Circuits (ASICs) on embedded system design. **(06 Marks)**

Module-5

- 9 a. Explain in detail the structure, memory organization and state transition of the process. **(08 Marks)**
- b. What is deadlock? Briefly explain the different conditions which favours a deadlock situation in an operation system. **(06 Marks)**
- c. Explain hard Real Time and Soft Real Time operating system with examples. **(06 Marks)**

OR

- 10 a. List the various hardware debugging tools used in embedded product development and explain Boundary Scanning approach. **(08 Marks)**
- b. Briefly explain the role of Integrated Development Environment (IDE) for embedded software development. **(06 Marks)**
- c. Write a short note on message passing. **(06 Marks)**
