



**MSIT 4E 24 (OS)**

**IV Semester M.Sc. (I.T.) Examination, June/July 2010  
EMBEDDED SYSTEMS**

Time : 3 Hours

Max. Marks : 75

**PART – A**

Answer **all** questions :

**(12×2+1×1=25)**

1. What is an Embedded system ?
2. Mention Embedded processes type ?
3. What an ALV can do ?
4. Mention any two microcontroller characteristics ?
5. What is compiling, linking and locating ?
6. Explain row Emulators.
7. Define Embedded OS.
8. What is Deadlock ?
9. Briefly explain application of a RTOSS.
10. What is Kernel ?
11. Mention any two applications of VX works.
12. What is synchronization mechanism ?
13. What is a Tasks ?

**P.T.O.**

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PART – B

Answer **any five** questions :

**(5×10=50)**

1. What are the challenges of embedded system design and development ?
  2. Explain block diagrams of a typical Embedded system.
  3. Explain classification of Embedded system.
  4. Explain the following :
    - a) Instruction pipelining.
    - b) Microcontroller.
  5. Write a note on :
    - i) Microcontroller memory.
    - ii) Analog-to-Digital converters.
  6. Explain microcontroller characteristics and applications.
  7. What is the role of infinite loop in Embedded systems ?
  8. Explain the process of linking and locating.
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