MCSE - 204

M.E./M.Tech., II Semester

Examination, June 2014

System Programming

Time : Three Hours

Maximum Marks : 70

Note : i) Attempt one question from each unit. Each unit have internal choice.

    ii) All questions carry equal marks.

Unit - I

1. a) Explain the functions of a loader. 7
   b) Compare linking loader and linkage Editor. 7

OR

2. a) What are the different features of a Macro facility? 7
   b) Give the instruction formats of SIC/XE machine. 7

Unit - II

3. a) Describe about Dynamic Storage Allocation techniques. 7

   b) What is meant by intermediate code? Explain the various intermediate code generation. 7

OR

4. Write short note on : 14
   i) Scanning
   ii) Symbol table

Unit - III

5. a) Explain about Code Generator Generators (CGGs). 7
   b) Explain compilation process for distributed machine. 7

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OR

6. Write short note on
   i) Register Allocation
   ii) Instruction scheduling 14

Unit - IV

7. a) Discuss design issues in distributed operating system. 7

   b) Explain mechanism for building distributed file system. 7

OR

8. a) How deadlock detection in distributed system. 7
   b) Explain about message passing. 7

Unit - V

9. a) Explain about process synchronization. 7
   b) Describe about memory management technique. 7

OR

10. Write short note on : 14
    i) Amoeba
    ii) Cryptography

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