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Roll No

MCSE-204**M.E./M.Tech. II Semester**

Examination, December 2015

System Programming*Time : Three Hours**Maximum Marks : 70*

- Note:** i) Attempt any five questions.
 ii) All questions carry equal marks.
 iii) Assume data/value if required.

1. a) Why must a program specifically be compiled for debugging to be able to execute that program in a debugger? What two things does the compiler do to assist a debugger? 7
- b) List the various types of Instruction sets of SIC architecture. 7
2. a) List the Machine-Independent features of an Assembler. 7
- b) What are the different types of statements in an assembly language program? 7
3. a) What is meant by Macro within Macro (Nested Macro) How it is expanded? 7
- b) Write comparison between Linking loader and Linkage Editor. 7

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4. a) List the various Machine-Independent loader features. 7
- b) What are the basic functions of a debugging system? 7
5. a) Explain various code optimization techniques briefly. 7
- b) Describe how deadlock detection in distributed system. 7
6. a) Explain Access Matrix Model. 7
- b) List the Kernel's action in performing page-in and page-out operations. 7
7. a) Describe phases of compiler. 7
- b) Describe Design Issues in distributed operating system. 7
8. Write short notes on : 14
 - a) Distributed Shared Memory
 - b) RPC
 - c) Register Allocation techniques
 - d) Process synchronization
