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

Examination, June 2017

**System Programming***Time : Three Hours**Maximum Marks : 70***Note:** Attempt any five questions. All questions carry equal marks.

1. a) Explain with example concepts of Relocating and Linking. 7  
 b) What is Micro-Preprocessor? Explain steps of Macro-Preprocessor design. 7
2. a) What is Compiler? Explain benefits of compiler. Compare interpreter and compiler. 7  
 b) Explain symbol table and Intermediate code conceptual design. 7
3. Name the main components of a distributed file system. What might be the reason for separating the various functions of DFS into these components? 14
4. a) Differentiate between loosely coupled and tightly coupled system. 7  
 b) Discuss whether message passing or distributed shared memory for fault tolerant application. 7

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5. Explain the following terms : 14  
 a) Data dependence  
 b) Data flow analysis  
 c) Dynamic compilation
6. a) Explain Cryptography. Why security and cryptography are require in distributed operation system? 7  
 b) Explain fault tolerance and memory management. 7
7. How are distributed deadlocks different from single system deadlock? Explain with example. 14
8. Write a short notes : (Any Three) 14  
 a) Unix operating system  
 b) Register allocation  
 c) Assembler  
 d) Bi-directional data flows

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