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Roll No

MCSE-204

M.E./M.Tech. II Semester

Examination, June 2016

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) Draw macro instruction structure. Give example with argument and state the output. 7
b) Write the algorithm for syntax analysis phase. 7
2. a) What is meant by intermediate code? Explain the various intermediate code generation. 7
b) Describe about dynamic storage allocation techniques. 7
3. a) Explain compilation process for distributed machine. 7
b) Describe dynamic compilation and machine optimization in detail. 7
4. a) Explain various code optimization technique briefly. 7
b) Explain distributed deadlock detection mechanism. 7

5. a) Describe about advanced models of protection. 7
b) Describe about Access matrix model. 7
6. a) What are design issues in distributed operating system? Explain with example. 7
b) What are the main advantages of a RPC. Also explain how the binding between a client and a server to change dynamically? 7
7. a) Discuss and explain structure of a parallelizing compiler. 7
b) Explain about Code Generator Generators (CGGs). 7
8. Write short notes on : 14
 - a) Amoeba
 - b) Distributed shared memory
 - c) Data partitioning
 - d) Process synchronization
