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Total No. of Questions: 8]

[Total No. of Printed Pages : 2

Roll No

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

Examination, December 2016

System Programming

Time: Three Hours

Maximum Marks: 70

Note: Attempt any five questions. All questions carry equal marks.

- a) Specify all the steps in producing a single pass assembler and give the detailed flow chart?
 - Describe tasks and data structures considered for the design of a macro preprocessor.
- a) Define forward references. How it can be solved using back-patching? Explain with example.
 - b) What are the issues in code generation in relation to compilation of expression? Explain each issue in brief?
- a) Explain design of linker by addressing issues of relocation and linking.
 - Write goals of distributed operating system and discuss its design issues.
- 4. a) Discuss code generation for pipelined machines.
 - b) Describe about Andrew operating system.
- 5. a) Discuss issues related to file system reliability?
 - b) List the kernel actions necessary to support virtual memory operation. Explain why these can not be performed in the non kernel mode?

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[2]

- a) What is dynamic compilation? List out the key advantages of dynamic compilation.
 - b) Discuss Code Generator Generators (CGGs).
- a) What are the advantages and disadvantages of distributed shared memory? Explain.
 - b) Describe structure of multiprocessor operating system.

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- 8. Write short notes on the following:
 - a) Access matrix model
 - b) Remote procedure call
 - c) Process synchronization
 - d) Distributed scheduling

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