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Roll No

MEDC-201

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

Examination, December 2017

System Programming

Time: Three Hours

Maximum Marks: 70

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Note: i) Attempt any five questions.

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- ii) All questions carry equal marks.
- iii) Assume data/value if required
- How recursion is differ from iteration? Write a fibonancci series program for both.
 - Explain types of data structure operation in brief.
- How to create pointers? Explain pointers manipulation with suitable example.
 - Write a program to find simple interest using function.
- Write a C program function to insert the node at beginning a) and ending into singly link list.
 - What do you mean by polish notation? Explain with suitable example.
- Explain AVL tree with an example.
 - How insertion and deletion operation can be performed in queue. Explain with diagram.
- Write a C code for binary search and find the item 32 into the given list using binary search. 25, 32, 65, 80, 96, 122, 135, 150

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- Sort the following numbers using insertion sort. 46, 25, 35, 49, 10, 92, 83, 32
- Find M matrix and S matrix of matrix chain multiplication whose sequence of dimensions is {5, 10, 3, 12, 6}
 - b) Explain divide and conquer technique with suitable example.
- Explain traversal operation on binary tree.
 - Write basic step of push/pop operation of stack with
- Write short note on:

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