Roll No .	
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MEMT-302(B)

M.E./M.Tech. III Semester Examination, December 2017 System Programming

(Elective - II)
Time: Three Hours

Maximum Marks: 70

- Note: i) Attempt any five questions.
 - ii) All questions carry equal marks.
- 1. a) Discuss about the steps in problem solving with digital computer algorithms.
 - Discuss about control constructs like conditionals, iterations, conditional repetitions and recursion.
- 2. a) Discuss about data types and data representation.
 - b) Discuss about data structure array various operations with arrays.
- 3. a) Discuss about pointers for data structures and functions.
 - b) Discuss about static and dynamic allocations.
- 4. a) Discuss about various operations like searching appending and insertion.
 - b) Discuss about Doubly linked lists and their implementation.
- 5. a) Discuss about Queues and various operations on Queues.
 - b) Discuss about the operation and applications of different trees.
- 6. a) Discuss about Binary and Hash search technique.
 - b) Explain about insertion sort and bubble sort. http://www.rgpvonline.com
- 7. Give an overview of Assemblers, Interpreters compilers and Editors.
- 8. Write short notes on any two of the following:
 - a) Pointers for data structures
 - b) Stacks and its applications
 - c) Quick sort and Heap sort
