R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, HYDERABAD
B.Tech I Year Examinations, December-2014/January-2015
COMPUTER PROGRAMMING AND DATA STRUCTURES
(Common to all Branches)

Time: 3 hours   Max. Marks: 75

Answer any five questions
All questions carry equal marks

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1.a)   Differentiate between algorithm and flowchart.
  b)   Draw a flowchart to find whether the number is prime or not.

2.a)   Explain various logical and bitwise operators supported by C.
  b)   Write a C program to find the maximum and minimum number of 10 entered numbers.

3.a)   Explain about different storage classes in C.
  b)   Write a C program to multiply two matrices using functions.

4.   Write a C program to which will read a text and count all occurrences of particular word.

5.   Explain nested structures and array of structures with examples.

6.   There are 100 records present in a file with the following structure:
       Struct
       {
       Char itemcode[6];
       Int qty;
       };
       Write a program to read these records, arrange them in ascending order and write them to a target file.

7.   Explain what quick sort is. Write a program to implement quick sort.

8.   Explain how infix expression is converted to postfix expression and write a program to convert infix expression to postfix expression.

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