R13

Code: 13A12101

B.Tech I Year (R13) Supplementary Examinations June 2016
PROGRAMMING IN C & DATA STRUCTURES
(Common to CE, ME, EEE, ECE, EIE and IT)

Time: 3 hours   Max. Marks: 70

PART – A
(Compulsory Question)
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1   Answer the following: (10 X 02 = 20 Marks)
   (a) Write about structure of C program?
   (b) Draw flowchart to find whether the sum of 2 numbers is odd or even.
   (c) Write a note on difference between break and continue statements.
   (d) Write the difference between while and do-while statements.
   (e) Write four types of storage classes.
   (f) What is binary search?
   (g) Write the disadvantage of pointers.
   (h) Write operations on files.
   (i) Write difference between structure and union.
   (j) What is circular queue?

PART – B
(Answer all five units, 5 X 10 = 50 Marks)

UNIT - I

2   What is operator? Explain different operators with examples.
OR
3   Write about built-in, derived, user-defind and void data types.

UNIT - II

4   Write about categories of functions with examples.
OR
5   Write a c program to find the *greatest* of given 3 numbers using else – if ladder.

UNIT - III

6   Write about string manipulations functions available in C with examples.
OR
7   What is 2D array? Write program for addition of 2 matrices.

UNIT - IV

8   Explain structure declaration in C. How we can use different Ways of declaring Structure using Typedef?
OR
9   Write about dynamic memory management functions in C.

UNIT - V

10   Define stacks and explain stack implementation concepts using arrays.
OR
11   Write a suitable program to implement Single linked list.

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