367356(67)

BE (3rd Semester)
Examination, Nov.-Dec., 2017
(New Scheme)
'C' Programming

Time Allowed : 3 hours   Maximum Marks : 80
Minimum Pass Marks : 28

Note : (i) Attempt all **five** questions. Part *(a)* of each question is compulsory. Solve any **two** from *(b)*, *(c)* and *(d)* of each question.

(ii) The figures in the right-hand margin indicate marks.

1. (a) Define keywords. Write five keywords of C with its meaning.   csvtuonline.com   [2]

   (b) Describe the history of C. Also write the features and characteristics of C.   [7]

   (c) Explain types of operators available in C.   [7]

   (d) Differentiate between algorithm and flowchart. Draw a flowchart for solving a quadratic equation.   [7]

2. (a) How will you initialize 2-dimensional arrays?   [2]

   (b) Compare else-if ladder with switch case. Which one is better and why?   [7]

   (c) What are the various jump statements available in C? Explain them with the help of suitable program.   [7]

   (d) Write a program to input on integer array and sort it in descending order.   [7]

3. (a) What is function prototype?   [2]

   (b) Explain the concept of recursion with the help of suitable program.   [7]

   (c) What are the two methods used to pass the argument to function? Explain with suitable program.   [7]

   (d) Explain proper syntax and example :   [7]
      (i) Array of pointer   csvtuonline.com
      (ii) Pointers to structure

4. (a) Define structure using in C.   [2]

   (b) Write a program to input a string and to check whether it is palindrome or not (do not use string library function).   [7]

   (c) What do you mean by union? How can it be declared and initialized in C program?   [7]

   (d) Describe structure within structure.   [7]

5. (a) What is file?   [2]

   (b) Explain file handling in C with the help of example.   [7]

(3)

(c) Write a program to illustrate writing and reading records to/from a file using Fprintf( ) and Fscanf( ). [7]

(d) List any three functions used for input and output in file handling. Give example. [7]

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