2018

Time: 3Hrs

Full Marks: 80

Candidates are required to give their answers in their own words as far as practicable.

The questions are of equal value.

Answer any five questions in which Q. No. 1 is compulsory.

- 1. Choose the correct answer from the following:
 - (a) The variables can be accessed by all modules in a program, are called
 - (i) Local variable
 - (ii) Internal variables
 - (iii) External variable
 - (iv) Global variable
 - (b) Be default, any real number in 'C' is treated as
 - (i) A float
 - (ii) A double
 - (iii) A long double
 - (iv) Depend upon memory model that you are using
 - (c) A "switch" statement is used to
 - (i) Switch between functions in a program
 - (ii) Switch from one variable to another variable

P.T.O.

- (iii) To choose from multiple possibilities which may arise due to different values of a single variable
- (iv) All of above
- The default parameter passing mechanism is
 - Call by value
 - Call by reference
 - Call by value result
 - None of above
- When an array is passed as an argument to a function
 - A copy of the first element is passed
 - A copy of the array is passed
 - (iii) A reference of the array is passed
 - (iv) An array cannot be passed as function arguments
- The goto statement transfers the control to
 - A variable
 - A function
 - (iii) A label
 - (iv) An operator
- Which of the array elements is referred by arr[5]?
 - Fourth
 - Fifth
 - Sixth
 - Third

- In C a pointer variable to an integer can be created by the declaration
 - (i) int p*;
 - int*p;
 - (iii) int+p;
 - (iv) int \$p;
- What is Token? Explain different Tokens used in C language. Lists all rules which is to be followed by identifiers.
- How is a string? declared and initialized? Explain with the help of an example. Explain the difference between an array and a structure.
- Differentiate between function declaration and function 4. (a) definition.
 - Write a function prototype for each of these functions:
 - Square () that takes two integer arguments and returns a long value
 - Convert () that takes a character argument and also return a character
 - Compare () that takes two strings as arguments
 - Reciprocal () that takes an integer argument and returns the float value.
 - 5. (a) Write a C program to display the factorial of a number accepted from the user. P.T.O.

- (b) Write a C program to find the length of a string.
- 6. Write short notes on any two of the following:
 - (i) Recursive function
 - (ii) Union
 - (iii) Control structure
 - (iv) Pointer
- 7. Differentiate any two of the following:
 - (i) Call by value and Call by reference
 - (ii) If -else and switch---case statement
 - (iii) Register variable and Static variable
 - (iv) Array and Function
 - 8 How do you define constant and variables? Explain in details various types of constant in "C".
 - 9. What is Pre-processors? Define some Preprocessors in C?
 - 10. What is Dynamic Memory Allocation? Explain any two functions of Dynamic Memory Allocation.
