

B.Sc.(IT) Semester - 1 (CBCS) Examination**Nov./Dec. -2018 (Old Course)****PROBLEM SOLVING METHODOLOGIS AND PROGRAMMING IN C(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q-1 (A) Attempt the following : (04)
- (1) List pre programming technique tools.
 - (2) List data types of C.
 - (3) List character set of C.
 - (4) List logical operator.
- (B) Attempt any one: (02)
- (1) Draw a flow chart to print sum of two nos.
 - (2) Explain arithmetic operators.
- (C) Attempt any one: (03)
- (1) Explain type casting.
 - (2) Explain algorithm with example.
- (D) Attempt any one: (05)
- (1) Explain program structure of C language.
 - (2) Explain data types of C.
- Q-2 (A) Attempt the following : (04)
- (1) Write down the syntax of if... else.
 - (2) List loops available in C.
 - (3) Int a=10; b=++a; what is value of a and b?
 - (4) Symbols used for ternary operator is_____.
- (B) Attempt any one: (02)
- (1) Explain break and continue.
 - (2) Explain if...else.
- (C) Attempt any one: (03)
- (1) Explain while loop with example.
 - (2) Explain goto with example.
- (D) Attempt any one: (05)
- (1) Explain switch... case with example.
 - (2) Write a program to print Fibonacci series up to n numbers.
- Q-3 (A) Attempt the following : (04)
- (1) Full form of UDF.
 - (2) Function call itself is known as _____.
 - (3) To check length of any string used _____ function.
 - (4) To clear the output screen used _____ function.
- (B) Attempt any one: (02)
- (1) Explain strlen() and strcmp functions.
 - (2) Explain getchar() with example.

- (C) Attempt any one: (03)
- (1) Explain call by value and call by reference.
 - (2) Explain any three math functions with example.
- (D) Attempt any one: (05)
- (1) Explain types of UDF.
 - (2) Explain recursion with example.
- Q-4 (A) Attempt the following : (04)
- (1) Int a[4] [5]; how many elements are stored in the variable?
 - (2) List types of array.
 - (3) Which keyword is used to define a structure?
 - (4) The individual values stored in an array called as _____.
- (B) Attempt any one: (02)
- (1) Explain structure with example.
 - (2) Explain character array with initialization.
- (C) Attempt any one: (03)
- (1) Explain array with structure with example.
 - (2) Differentiate: structure and union.
- (D) Attempt any one: (05)
- (1) Explain types of array.
 - (1) Explain nested structure with example.
- Q-5 (A) Attempt the following : (04)
- (1) Which file mode is used to read data from text file?
 - (2) Which type of value stored by pointer?
 - (3) Which symbol is used to access structure member?
 - (4) Which symbol is used to declare pointer variable?
- (B) Attempt any one: (02)
- (1) Explain pointer with example.
 - (2) Explain fopen(), fclose() with example.
- (C) Attempt any one: (03)
- (1) Explain file mode with example.
 - (2) What is pointer to structure?
- (D) Attempt any one: (05)
- (1) Write a program to copy data from one text file to another text file.
 - (2) Explain pointer to pointer with example.
