

Roll No.

Total No. of Questions : 07]

[Total No. of Pages : 02

BCA (Sem. - 1st)

PROGRAMMING IN C

SUBJECT CODE : BSBC - 102 (2011 & Onward)

Paper ID : [B1109]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A are compulsory.
- 2) Attempt any four questions from Section - B.

Section - A

(10 × 2 = 20)

Q1)

- a) What are structures?
- b) What are user defined data types?
- c) What are the applications of C programming?
- d) What are null pointers?
- e) What do you mean by tokens and keywords.
- f) What are header files?
- g) What is the purpose of getch () function?
- h) What is the difference between pre increment and post increment operators?
- i) What are macros in C?
- j) What are nested loops?

SECTION - B

(4 × 10 = 40)

- Q2)** a) What are various control structures available in C.
b) What is call by value in functions?
- Q3)** a) Write a program to input a one dimensional array of 10 numbers. Arrange the numbers stored in the array in such a way that the odd numbers are followed by even numbers.
b) Differentiate between structure and union.
- Q4)** Write a program that calculate the perimeter and area of rectangle. Also provide SET and GET functions for the *LENGTH* and *WIDTH* attributes. GET function should take the values of *LENGTH* and *WIDTH* attributes from the user. The SET function should verify that *LENGTH* and *WIDTH* are each floating point larger than 0.0 and less than 20.0.
- Q5)** What are files in C? Discuss the method of creating, opening, reading and closing a data file.
- Q6)** a) Write a short note on various storage classes.
b) Explain recursion with the help of a C program.
- Q7)** a) 'C is a middle level language', comment on this statement.
b) Explain various C operators.

