



I Semester B.C.A. Examination, Feb./March 2010
PROGRAMMING IN C

Time: 3 Hours

Max. Marks: 80

- Instructions :** 1) Answer *all* questions in Part A, 6 out of 8 questions in Part B, and 3 out of 5 questions in Part C.
2) Part A: Questions from 1 to 8 carry 1 mark and 9 to 14 carry 2 marks each.
3) Part B: Each question carries 5 marks.
4) Part C: Each question carries 10 marks.

PART – A

1. main()

```
{ int a = 30, b = 40, x;  
  X = (a!=10) && (b!=30);  
  Printf(“%d”,x);
```

The output of this code is_____.

2. Default return type in C is _____.
3. _____ invented C language.
4. Magnetic disks are _____ type of devices.
5. _____ is a device that connects two LAN's.
6. Format specifier for inputting real number is _____.
7. A for loop with no test condition is known as _____ loop.
8. _____ is the example of a scalar data type.
9. What is an array ? Mention different types of array.
10. What is Field Width Specification?
11. Write a note on input devices.
12. Write the syntax for the conditional operator in C.

P.T.O.



BCA – 13

13. A C program contains the following declaration

Int i,j ;

Char c;

Float x;

Short s;

Determine the data type of i) $x + c$ ii) $s + j$.

14. What is the output of the following C statement ?

X = 3 , y = 5;

Y = +x-y;

Y = ++y;

Printf(“%d”,y);

PART – B

1. List four storage classes available in C and explain.
2. Write a C code to find the roots of a quadratic equation.
3. Write a C code to convert decimal value to octal.
4. Write a C code to sort an array by using Bubble sort technique.
5. Write a flow chart to compute the factorial of a given number.
6. Briefly explain the different character sets in C language.
7. Explain any two bitwise operators with an example.
8. With a C program explain the use of break statement.

PART – C

1. Write a C program to multiply two matrices.
 2. Write a C program to find GCD and LCM by using functions.
 3. Explain different types of Arithmetic operators with an example.
 4. Write a program using pointers to compute the Sum of all elements stored in an array.
 5. Explain the difference between actual and formal parameter with an example.
-