

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

Time: 3 Hours

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 inputing 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.

Max. Marks: 80

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.