

**Magadh Mahila College
Patna University, Patna**

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BCA (Sem -I)
Paper: CC-2 (Programming Technique 'C')

Full Marks: 50
Time: 2 Hrs

1) Choose the correct answer from the given options 5 X 1 = 5 marks

- I. The operator which compares two values is
 - a) assignment
 - b) relational
 - c) unary
 - d) equal
- II. When we place a semicolon after the for statement,
 - a) the compiler will generate an error message
 - b) program runs infinite times
 - c) Loop executes infinite times
 - d) Loop executes based on the condition given without executing the statements inside for loop
- III. The function malloc() is defined in which header file
 - a) stdio.h
 - b) stdlib.h
 - c) conio.h
 - d) iostream.h
- IV. Which function is used to associate a file with a stream?
 - a) fread()
 - b) fopen()
 - c) fwrite()
 - d) fflush()
- V. The preprocessor directives must be preceded by which symbol?
 - a) &
 - b) &&
 - c) #
 - d) !

2. Fill in the blanks

5 X 1 = 5 marks

- I. Character constants are quoted using
- II. The _____ statement is used to skip statements in a loop.
- III. The default storage class for variables declared inside a block is
- IV. Strcmp(str1, str2) returns 1 if _____.
- V. _____ contains related information of the same data type

SECTION - B

Answer any two questions.

Each answer should not be more than 200 Words. 2 X 5 = 10 marks

3. Write a short note on basic data types that C language supports.
4. Explain Left shift and right shift bitwise operator with examples.
5. What is recursion? Explain with an example.
6. Write a C program to search a value specified by the user, using binary search.

SECTION - C

Answer any three questions

3 X 10 = 30 marks

7. Write a C program to calculate the roots of a quadratic equation.
8. Explain call by value and call by reference in C with suitable examples.
9. Write a C program to print the Fibonacci series up to n terms using user defined function.
10. Write a C program to sort an array 10 elements.
11. Write a c program to multiply two 3' x 3 matrices.



array

C < n

Sum

m(p) < m(r) > 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100