47721/A0210

Reg. No. ☐☐☐☐☐☐☐☐

I Semester B.C.A. 6 (NEP) Degree Examination, March/April- 2024

PROGRAMMING IN C

(Regular/Repeater)

Time : 2 Hours   Maximum Marks : 60

Instructions to Candidates:

    1.   **All questions are compulsory.**

1.   Answer any SIX questions.   (6×2 = 12)

    a)   What is a constant? How it is declared? Give example.

    b)   What is a keyword? Give example.

    c)   List the relational operators in C.

    d)   Write the syntax and example of "for loop".

    e)   Define string. Write the syntax and example to accept a string.

    f)   List any four character handling functions.

    g)   What is a function? List the components of a function.

    h)   What is structure? How to declare a structure variable?

2.   Answer any THREE questions.   (3×4 = 12)

    a)   Explain the basic structure of C program.

    b)   What is a variable? State the rules to name a variable.

    c)   Explain printf () and scanf() statement.

    d)   Write a C Program to calculate area and circumference of a circle.

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3. Answer any **THREE** questions. (3×4 = 12)

    a) What is an arithmetic operator? State the precedence and associativity rule of an arithmetic operators.

    b) Explain switch statement with syntax and example.

    c) State the difference between while and do while loop.

    d) Write a C program to find largest of three numbers.

4. Answer any **THREE** questions. (3×4 = 12)

    a) What is an array? How to declare and initialize one dimensional array?

    b) Write a C program to find the trace of a square matrix.

    c) Explain any two string handling functions.

    d) Write a C program to find the length of a string with out using built-in function.

5. Answer any **THREE** questions. (3×4 = 12)

    a) Explain function definition with syntax and example.

    b) Write a C program to check a number for prime by defining is prime() function.

    c) Explain structure definition with syntax and example.

    d) Write a C program to demonstrate the difference between structure and union.

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