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(20524) Roll No.
B.Sc. (Com. Sc.)-II Sem.

NP-3591
B.Sc. (Computer Science)
Examination, May-2024
PROGRAMMING IN "C"
(BCS-204)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt **all** the sections as per instructions.

Section-A

(Very Short Answer Type Questions)

Note : Attempt all **five** questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words. $5 \times 3 = 15$

1. What do you mean by recursion?

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2. How a single dimension and two dimension arrays are declared and initialized.
3. Differentiate between the 'Break' and 'Continue' statements.
4. Differentiate between the print f () and Scan f () functions.
5. What is the role of Header files in C program.

Section-B

(Short Answer Type Questions)

Note : Attempt any **two** questions out of the following **three** questions. Each question carries 7.5 marks. Short answer is required not exceeding 200 words. $2 \times 7.5 = 15$

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6. Explain the Different Type of loops in C with Syntax.
7. Explain if, if-else, nested if-else and cascaded if-else with examples and Syntax.
8. Write a C-program using functions to generate the Fibonacci Series.

Section-C

(Detailed answer Type Questions)

Note : Attempt any **three** question out of the following **five** questions. Each question carries 15 marks. Answer is required in detail. $3 \times 15 = 45$

9. What do you understand by nested looping? Write down the application where nested looping is used. Also write down the necessary conditions for writing nested loops.

10. What is function? Why is its importance in C language? Explain with the help of a suitable example.
11. How can you declare an array in c language? Write a program to find the series of elements of each row of a Matrix of order 5×4 .
12. Mention the different between "Call by value" and "Call by reference" by writing a C Program.
13. Write brief notes on :
 - (a) Difference between if-else and Nested if-else statement.
 - (b) Use of Switch statement in a C Program.