



Reg. No. 

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## BCACACN 102

**First Semester B.C.A. Degree Examination, Dec. 2023/Jan. 2024  
(NEP-2020) (2021-2022 Batch Onwards)  
PROGRAMMING IN C  
(DSCC)**

Time : 2 Hours

Max. Marks : 60

**Note : Answer any six questions from Part – A and one full question from each Unit of Part – B.**

### PART – A

1. a) What is a C Token ? List the different types. (6×2=12)
- b) What is initialization ? Why it is important ?
- c) Write the syntax of simple if statement. Give an example.
- d) What is the difference between = and == operators ?
- e) What is a string ? How to declare a variable to hold string value in C ?
- f) What do you mean by scale factor in pointer increment ?
- g) What are actual and formal arguments ?
- h) Differentiate structure and Union.

### PART – B

#### Unit – I

2. a) Explain the structure of 'C' program with example.
- b) Explain with example #define statement in 'C'. List the rules to be applied. (6+6)
3. a) Explain the fundamental data types in 'C'.
- b) Explain scanf() function with its syntax and example. (6+6)



**Unit – II**

- 4. a) List and explain logical and relational operators available in C.
- b) Explain nested if statement with an example. **(6+6)**
- 5. a) Explain implicit and explicit type conversion with example.
- b) Explain for loop with syntax and example. **(6+6)**

**Unit – III**

- 6. a) What is a pointer ? Explain how to declare and initialize pointer with an example.
- b) Write a program to sort elements of an integer array. **(6+6)**
- 7. a) How do you declare and initialize two dimensional array ? Explain with example.
- b) List and explain any four-character handling functions available in C. **(6+6)**

**Unit – IV**

- 8. a) Explain function declaration and function call with example.
- b) What is union ? Explain with syntax and example how to define union. **(6+6)**
- 9. a) Write a note on :
  - i) Nesting of functions
  - ii) Recursive functions.
- b) Explain with example defining a structure, declaring structure variable and accessing structure members. **(6+6)**