



Sl. No.

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**I Semester BCA Examination, February/March - 2023****(Scheme : NEP)****COMPUTER APPLICATION****Programming in 'C' (DSC)****Time : 2½ Hours****Max. Marks : 60****Instruction : Answer part A and part B.****PART - A****Answer the following questions :****[3 × 15 = 45]**

1. a) Explain the structure of a 'C' program with an example. [8]  
b) Discuss the basic data types available in C. [7]  
OR  
a) Explain the salient features of 'C'. [7]  
b) With suitable example, explain arithmetic, logical and bitwise operator. [8]
2. a) Explain with general syntax and example of different forms of if statements. [9]  
b) Explain any three string handling functions with example. [6]  
OR  
a) Explain the different looping statements in 'C'. [9]  
b) Write a program in 'C' to check whether a given number is prime or not. [6]
3. a) What is a pointer? Illustrate with an example program. [8]  
b) What is a structure? List the differences between a structure and an union. [7]  
OR  
a) What is a function? Explain the advantages of functions. [7]  
b) Write a C program to swap-two numbers using pointers. [8]

**P.T.O.**

**PART - B****Answer any three questions :****[3 × 5 = 15]**

4. a) What are tokens? Explain any two with examples.
- b) Write a note on unformatted I/O functions.
- c) Explain switch statement with an example.
- d) Define function definition and function call with an example.
- e) Write a note on :
- i) Type conversion
  - ii) Operator precedence

