

Roll No.

Total No. of Questions : 07]

[Total No. of Pages : 01

BCA (Sem. – 1st)
PROGRAMMING IN 'C'
SUBJECT CODE : BC – 104(N2)
Paper ID : [B0204]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.

Section – A

(10 × 2 = 20)

- Q1)** a) What is switch case statement? Explain.
b) Write a program in 'C' language to find the length of string without using string functions.
c) What are storage classes? Explain.
d) What is recursion? How it is different from iteration? Explain.
e) Write a program in 'C' language to swap three variables without using fourth variable.
f) What is structure? How it is different from union?
g) What is pointer? What are its advantages?
h) What is sorting? Explain the concept of bubble sort.
i) What is linear search? How it is different from binary search.
j) Write a 'C' language program to generate a following Fibonacci series.

0 1 1 2 3 5 8 13 21 34

Section – B

(4 × 10 = 40)

- Q2)** What is data type and constant? Explain different types of data types and constants available in 'C' language.
- Q3)** What is operator? Explain different types of operators available in 'C' language by taking suitable examples.
- Q4)** a) What are jumping statements? Explain the difference between break and continue statements.
b) What is nested if statement? Write a program to find greatest number out of three number by using nested if statement.
- Q5)** What is an array? How it is different from string. Write a 'C' language program to multiply two matrices.
- Q6)** What is function and function prototyping? Explain the different methods of passing parameters to a function by taking suitable 'C' language program.
- Q7)** What are various file handling functions in 'C' language? Write a 'C' language program to count the number of lines in a file.

