

Roll No. ....

**97665**

**BCA 2nd Semester  
Examination – July, 2022**

**C PROGRAMMING**

**Paper : BCA-106**

*Time : Three hours ]*

*[ Maximum Marks : 80*

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*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

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*Note : Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. Each question carry equal marks.*

1. (a) What is the difference between printf( ) and scanf( ) ?
- (b) What is data type ?
- (c) Discuss the role of goto statement.

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- (d) What is continue statement ? Discuss with an example.
- (e) What do you mean by global variable ?
- (f) What is recursion ? Explain.
- (g) What is array of string ?
- (h) What are the storage classes ? 8 × 2 = 16

### UNIT – I

2. (a) Write short notes on : 8
- (i) Operator hierarchy
  - (ii) Structure of C program
- (b) What is initialization ? Why it is important ? 8
3. Write a C program that prints the prime numbers from 1 to 100. 16

### UNIT – II

4. Differentiate between : 16
- (a) While and do while loop
  - (b) Break and continue

5. (a) Write a program to find the smallest of three given numbers. 8
- (b) How break and continue statements work in repetitive statement ? 8

### UNIT – III

6. (a) What do you mean by function prototyping ? Write down the advantages of function prototypes in C. 8
- (b) What are string manipulation functions ? Discuss with example. 8
7. (a) Write a program to read five numbers from a file, calculate average of the numbers, and print in another output file. 8
- (b) What is parameter passing ? Discuss with example. 8

### UNIT – IV

8. (a) WAP to find the highest of three numbers using pointer to function. 8
- (b) What do you mean by algorithm and flowchart ? 8

9. (a) WAP to add two matrices of order  $m \times n$ . 8
- (b) What is array ? How can entire array be passes to a function ? 8
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