

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

Roll No.

97665

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

C PROGRAMMING

Paper : BCA-106

Time : Three hours] [Maximum Marks : 80

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.

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.

- (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 ? $8 \times 2 = 16$

UNIT - I

2. (a) Write short notes on :
- (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 :
- (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 if 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