9. (a) WAP to add two matrices of order m × n.   8

    (b) What is array ? How can entire array be passes to a function ?   8

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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 :   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 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