BCA Degree Examination
SEMESTER -1
C- PROGRAMMING

MODEL PAPER

Time: 3 Hours   Max.Marks: 75

Instructions: *Answer any 5 questions Out of 8 in PART-A*
                         Answer one question from each unit in PART-B

PART – A   5*5=25

1. Write a short note on basic data types that the C language supports and also give the structure of a C program ?
2. Distinguish between break and continue statement with a program example?
3. Write a program to print the factorial of a number ?
4. What is recursion explain it with a program example ?
5. Discuss about parameter passing mechanisms in C ?
6. What are different types of string handling functions explain it with its syntax and program examples ?
7. Write a short note on pointer arithmetic?
8. Differentiate between a structure and a union with example ?

PART- B   5*10=50
UNIT-1

9. a) Explain about C Tokens ?
   b)Write an algorithm and draw a flow chart for finding the biggest among the three given numbers ?   **(5+5)**
                                     (OR)
10. a) What are different operators in C
    b)What is the purpose of main function? What is the difference between void type and other data type used in function definition?   **(5+5)**

UNIT-2

11 Explain about different types of conditional control statements in C language ?   **(10)**
                                     (OR)
12.   a) What is a function? what is the use of user defined functions?   **(5+5)**
       b) Write a program to print the reverse of a number using functions

UNIT-3

13.   a) What is an array ? Explain one dimensional and two dimensional arrays with an example
      b) Write a program to read and sort an array of n elements   **(5+5)**
                                     (OR)
14.   Write a program to multiply two 2-dimensional matrices ?   **(10)**

UNIT-4

15.   a) Write a program to swap the values between two variables using pointers ?   **(5+5)**
       b) What do you mean by void pointer and a null pointer explain it with an example ?
                                     (OR)
16.   Explain nested structure with a program example ?   **(10)**

UNIT-5

17.   Write a C program to store student details in a file by using record concept   **(10)**
                                     (OR)
18.   Differentiate between text files and binary files   **(10)**