

**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
UNIT-1**

5*10=50

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 (5+5)
b) Write a program to read and sort an array of n elements
(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)

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