Reg. No ....   Name **22U122**

B C A DEGREE END SEMESTER EXAMINATION : OCTOBER 2022
SEMESTER 1 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY
COURSE : **19U1CRBCA2 : PROGRAMMING IN C**
(For Regular – 2022 Admission and Improvement / Supplementary - 2021/2020/2019 Admissions)

Time : Three Hours   Max. Marks: 75

PART A
Answer All (1 mark each)

1.   What do you mean by top down design ?
2.   What is the purpose of #define in c?
3.   Write the syntax of a function which receives an array.
4.   Write a program to print ASCII value of a given character.
5.   What is static variable?
6.   What are derived data types?
7.   What is structure pointer ?
8.   What is type casting?
9.   What is the use of strcpy() function in C?
10. What is an algorithm ?

(1 x 10 = 10)

PART B
Answer any 8 (2 marks each)

11. What is argc and argv in C ?
12. What is the use of goto statement in C?
13. What are the basic symbols of a flowchart ?
14. Explain nested structure.
15. Give the syntax of for loop.
16. Explain different types of instructions in a program.
17. What is the difference between malloc() and calloc()?
18. Define Array with example.
19. Write a program to swap two numbers without using a third variable.
20. Explain any two string functions.

(2 x 8 = 16)

PART C
Answer any 5 (5 marks each)

21. Write an algorithm and flowchart to find average of 3 numbers.
22. Distinguish between 1)fprintf() ii)fscanf()
23. What is pointer arithmetic? Explain with example.
24. Write a program to print first n natural numbers using recursion.

25. What is the difference between an array and a structure?

26. What is the difference between call by value and call by reference ?

27. Write a program to find area and perimeter of a circle by reading the radius.

(5 x 5 = 25)

PART D
Answer any 2 (12 marks each)

28. a) Write a program to make a copy of a file.
    b) Write a program to print sum of the series   1+1/2!+1/3!+......+1/N!

29. What is the difference between union and structure in C?

30. a) Explain different storage classes in C?
    b) Explain general form of a function with example.

31. Explain different programming languages and translators.

(12 x 2 = 24)