

B. C. A DEGREE END SEMESTER EXAMINATION - OCTOBER 2022**SEMESTER 1 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY****COURSE : 19U1CRBCA2 : PROGRAMMING IN C***(For Supplementary - 2016/2017/2018 Admissions)*

Time : Three Hours

Max. Marks: 75

PART A**Answer All (1 mark each)**

1. What is runtime error?
2. What is interpreter ?
3. What is a token?
4. Which are logical Operators?
5. What is local variable?
6. What is scope of a variable?
7. What is sorting?
8. How pointer is initialized in c ?
9. What is the purpose of #define in c?
10. What is the use of strcmp() function in C?

(1 x 10 = 10)**PART B****Answer any 8 (2 marks each)**

11. Write algorithm to find the greater number between two numbers ?
12. Explain different types of instructions in a program.
13. Output of the following program
void main()
{
int num=0;
printf("%d %d %d %d",num,num++,num--,++num);
}
14. Write a program to print opposite case of a given character.
15. What is the difference between scanf() and gets()?
16. What is main difference between variable and constant?
17. What is function parameters in c?
18. How a structure is different from an array ?
19. What is a pointer? Write the syntax to declare a pointer
20. What are string functions in c ?

(2 x 8 = 16)**PART C****Answer any 5 (5 marks each)**

21. Write an algorithm and flowchart to find biggest of 3 numbers
22. What is the role played by the break statement within the switch statement? Explain with example.

23. What is the difference between continue and break statement?
24. Difference between while and do..while loop.
25. What is the difference between scope and lifetime of a variable?
26. What is the difference between static and dynamic memory allocation in C?
27. Explain Preprocessor in C

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. Explain different control constructs in C.
29. What is call by value vs call by reference with example program?
30. What is a structure ? How structures are passed as function arguments ? Explain with an example
31. What is the purpose of using header files in C. Explain functions that are used in C for reading and writing of characters. Also, explain string input and output function in C.

(12 x 2 = 24)