

B. C. A. DEGREE END SEMESTER EXAMINATION - OCT 2020 : FEBRUARY 2021**SEMESTER 1 : MOBILE APPLICATIONS AND CLOUD TECHNOLOGY****COURSE : 19U1CRBCA2 : PROGRAMMING IN C***(For Regular - 2020 Admission and Supplementary - 2016/2017/2018/2019 Admissions)*

Time : Three Hours

Max. Marks: 75

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

1. What is a flowchart ?
2. What are high level languages ?
3. What is constant?
4. What is the use of return statement in C?
5. What is lifetime of a variable?
6. What is command line argument?
7. What is dynamic memory allocation?
8. Write the syntax of typedef statement.
9. What you mean C preprocessor ?
10. What is the use of strlen() function in C?

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

11. What are the basic symbols of a flowchart ?
12. What are the basic difference between compiler and interpreters ?
13. What is the output of this program ?
void main()
{
 int a=b=c=10;
 a=b=c=50;
 printf("\n %d %d %d",a,b,c);
}
14. Write a syntax for while loop.
15. What is nested loop?
16. What are the limitations of an array?
17. What do you mean by call by reference?
18. How a structure is different from an array ?
19. What is pointer arithmetic in C?
20. Write the syntax and purpose of getc() ?

(2 x 8 = 16)

PART C

Answer any 5 (5 marks each)

21. What are the difference between assembly language and high level languages ?
22. Explain conditional operator with example program?
23. Write a program to find area and perimeter of a circle by reading the radius.
24. Write a program to print multiplication table of a given number.
25. What is the difference between call by value and call by reference ?
26. What is the difference between malloc and calloc in c ?
27. What are string functions in c ?

(5 x 5 = 25)

PART D

Answer any 2 (12 marks each)

28. a) Write a program to sort an integer array in decreasing order using bubble sort?
b) Demonstrate the execution of the above program in the array [2,4,1,5,7,3,8]
29. a) Explain different storage classes in C?
b) Explain general form of a function with example?
30. What is the difference between union and structure in C?
31. Explain any five file handling functions with its syntax and use in C.

(12 x 2 = 24)