

19U128A

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Name:

Reg. No.....

FIRST SEMESTER B.Sc./B.C.A. DEGREE EXTERNAL EXAMINATION, NOV. 2019

(CUCBCSS-UG)

CC15U BCS1 B01/CC15U BCA1 B01 - PROBLEM SOLVING USING - C

(Core Course)

(2015 & 2016 Admissions - Supplementary)

Time: Three Hours

Maximum:80 Marks

I. Answer the following. Each question carries 1 mark.

1. What are identifiers?
2. Define string constant.
3. Give the syntax of else-if ladder.
4. Explain symbolic constants.
5. What do you mean by C tokens?
6. Define Structure.
7. What is an algorithm?
8. What are arrays?
9. What are preprocessor directives?
10. What is register storage class?

(10 x 1 = 10 Marks)

II. Answer *all* questions. Each question carries 2 marks.

11. Explain any two string handling functions
12. Explain command line arguments.
13. Explain basic structure of C programs,
14. What are the elements of user-defined function?
15. Explain getchar() and putchar() functions with an example.

(5 x 2 = 10 Marks)

III. Write any *five* questions. Each question carries 4 marks.

16. Explain the syntax and execution of 'while' loop and 'for' loop.
17. What is the difference between passing by value and passing by reference?
18. What are the different types of variable storage class in C?
19. Explain break, continue and goto statements with suitable examples.
20. What are data types in C? Explain the different types of data types with example.
21. Write an algorithm and flowchart to compute the sum of digits of a given integer number.

22. What is meant by dynamic memory allocation? Explain various memory allocation functions.

23. Explain declaration and initialization of one and two dimensional arrays.

(5 x 4 = 20 Marks)

IV. Answer any *five* questions. Each question carries 8 marks.

24. Explain different types of operators available in C language with suitable examples.

25. Explain decision making and branching statements with example.

26. What is a recursive function? Write a recursive function to find the factorial of a number.

27. Explain the concept of array of structures. Write C program to find the average mark obtained by each student, given the marks in three subjects for a group of 4 students.

28. What do you mean by files? Explain the syntax of declaration and different modes of opening a file.

29. Write a C program to find the roots of Quadratic equation.

30. What is meant by pointers? How can you declare and initialize pointers? Explain with example.

31. Write C program using the concept of functions to add two given matrices.

(5 x 8 = 40 Marks)
