

20U128S

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Name:

Reg. No.....

FIRST SEMESTER B.Sc./B.C.A. DEGREE EXAMINATION, NOVEMBER 2020

(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 questions. Each question carries 1 mark.

1. Define C Tokens.
2. Name the fundamental data types in C.
3. Give the syntax of Switch statement.
4. What are identifiers?
5. What is size of() operator in C?
6. Define a character constant.
7. Define pointer.
8. What is register storage class?
9. Explain the use of * and & in using pointers.
10. What is the use of return statement in C?

(10 x 1=10 Marks)

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

11. Explain basic structure of c programs.
12. Write a program to determine whether a number is odd or even.
13. Write a note on preprocessors.
14. Explain command line arguments.
15. What is user defined function?

(5 x 2 = 10 Marks)

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

16. Define Union.
17. Explain printf and scanf functions.
18. Write algorithm and flowchart to compute the sum of digits of a given integer number?
19. Explain any two string handling functions with example.
20. Explain symbolic constants. How it is defined?
21. How does Structure differ from an array?

22. What is a recursive function? Write a recursive function to find the factorial of a number?
23. What is the difference between function pointer and pointer to a function?

(5 x 4 = 20 Marks)

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

24. What is the difference between passing by value and passing by reference? To what type of arguments does each apply?
25. Write C program using the concept of functions to multiply two given matrices, after checking whether multiplication is possible?
26. Explain break, continue and goto statements with suitable examples?
27. Explain decision making and branching statements?
28. What do you mean by files? Explain the syntax and declaration and different modes of opening a file?
29. What is meant by dynamic memory allocation? Explain various memory allocation functions?
30. Explain different types of operators available in C language with suitable examples?
31. Write a program using pointers to read in an array of integers and print its elements in reverse order?

(5 x 8 = 40 Marks)
