

15U124

**FIRST SEMESTER B.Sc. (CS) / BCA EXTERNAL DEGREE  
EXAMINATION DEC./JAN. 2015 - 16**

**Core course**

**CC15UBCS1B01 / CC15UBCA1B01- PROBLEM SOLVING USING 'C'**

**Time: Three Hours**

**Maximum Marks: 80 Marks**

**I. Answer the following:-**

1. What is a token?
2. Write syntax of switch statement.
3. What is the use of getch()?
4. What is the difference between & and \* operators in pointers in C?
5. What is the use of calloc statement?
6. Define pointer.
7. What do you mean by recursion?
8. Write syntax of conditional operator?
9. What is an identifier?
10. Write an algorithm to check a number is odd or even.

(10 x 1=10 Marks)

**II. Answer all questions.**

11. What is the use of break and continue statement?
12. What are the differences between arrays and structures?
13. Write about any few functions in Math.h.
14. Write the structure of C program.
15. What are the uses of comments?

(5 x 2=10 Marks)

**III. Write any five questions.**

16. Explain string handling functions with example?
17. Write about logical, bitwise and unary operators in C.

18. Write a C program to find sum and reverse of a number.
19. Explain how pointers can be used in arrays with example?
20. Explain parameter passing mechanism to functions in C?
21. Short note on structures in C.
22. Explain symbolic constants? How it is defined?
23. Write a C program to sort a set of numbers?

(5 x 4=20 Marks)

**IV Answer any five questions:**

24. Short note on branching statements in C.
25. Explain functions in C.
26. Explain file handling operations in C.
27. Short on storage classes.
28. Explain preprocessor directives.
29. Write a C program to find transpose of a matrix using functions.
30. Explain pointer concepts in arrays, structures.
31. Write a C program to copy file content to another file.

(5 x 8=40 Mark)

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