

TB221090V

Reg. No :

Name :

B. Sc. / B. Voc. DEGREE (C.B.C.S.) EXAMINATION, NOVEMBER 2022
(2022 Admissions (regular) 2021 Admissions (Improvement / Supplementary), 2020, 2019, 2018, Admissions
Supplementary)

SEMESTER I - CORE COURSE (COMPUTER APPLICATIONS)

(For Computer Applications and B. Voc. SWD)

CA1B02B18 - METHODOLOGY OF PROGRAMMING AND C LANGUAGE

Time : 3 Hours

Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

1. Explain the structure of a C Program.
2. Define Algorithm.
3. Illustrate the functions of different parts of a Computer .
4. Explain the methods for initialization of variables.
5. Recall the concept of variables in 'C'.
6. Write a C program to add two integer values.
7. Explain else-if ladder.
8. Write a C program to check whether a given number is odd or even.
9. Summarize the drawbacks of Initialization of arrays in C.
10. Identify the main elements of an array declaration.
11. Formulate the ways in which the members of structure object is accessed.
12. Illustrate the need for typedef.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Compare and Contrast Compilers and Interpreters.
14. Write a C Program to illustrate the use of Conditional Operator.
15. Illustrate the use of unary operators.
16. Explain the use of 'goto' statement with a sample program.
17. Justify the use of 'break' statement in Switch statement.
18. Describe the following functions with examples. (i)strlen() (ii) strcpy() (iii)strcat() (iv)strcmp()
19. Develop a C program to search an element from the array.
20. Invent the meaning of default arguments and command line arguments.
21. Demonstrate the working of a recursive function.

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

22. Explain in detail C character set, C variable, C constants.
23. Write a C program to check whether the given character is a vowel using Switch statement.

24. Write a C program to perform Matrix Addition and Subtraction.
25. Discuss structure in C language? Express a structure with data members of various types and declare two structure variables. Write a program to read data into these and print the same.