

## **B.Voc.– Information Technology**

**I Semester End Examination March/April-2022**

### **Problem Solving Techniques**

**Course Code: BVIT1DSC02**

**QP Code: 1034**

**Time: 2 Hours**

**Max marks: 60**

**Note: Answer all the sections**

#### **PART A**

**I. Answer any TEN questions. Each question carries TWO marks:**

**10X2=20**

1. What is an algorithm?
2. Define data type in C.
3. What are local and global variable in C?
4. What is Command line argument?
5. Define break and continue statement.
6. Define the formatted input – scanf() with syntax.
7. What is function?
8. What is one dimensional array? Give Example.
9. Define pointer with example.
10. Define sorting?
11. What is linear search?
12. What is Pattern Matching?

BMSCW LIBRARY  
QUESTION PAPER

**PART – B**

**Answer any FIVE questions. Each question carries FOUR marks**

**5X4=20**

13. Write an algorithm to find Sum of digits of number.
14. Explain Asymptotic Notation and mention its types.
15. Write a program to check a given number is prime or not.
16. Write a Short note on switch case with example.
17. Explain generation of pseudo random numbers with example.
18. Explain array order reversal with example.
19. Explain Binary Search technique.

**PART – C**

**Answer any TWO questions. Each question carries TEN marks**

**2X10=20**

20. Explain the Control statements with example .
21. Explain Histogramming in detail with example.
22. Explain Different types operators with Example.
23. Write a C program to find the roots of quadratic equation.

\*\*\*