UUCMS. No. ⬚⬚⬚⬚⬚⬚⬚⬚⬚⬚

B.M.S COLLEGE FOR WOMEN AUTONOMOUS
BENGALURU – 560004

I SEMESTER END EXAMINATION – JAN/FEB- 2024

B.VOC-IT: PROBLEM SOLVING TECHNIQUES
(NEP Scheme 2021-22 onwards F+R)

Course Code: BVIT1DSC02   **QP Code: 1034**
Duration: 2 ½ Hours   **Max. Marks: 60**

Instructions: Answer all the sections

SECTION - A

I. Answer any TEN questions. Each question carries TWO marks   (10X2=20)

1. Mention any two features of an What

2. What are the rules for declaring variables in "C"?

3. Define type carting.

4. What is ternary operator?

5. Define string with an example.

6. How are the elements in an array sorted in the memory?

7. Define pointer with an example.

8. What is pattern matching? Mention its application.

9. Define recursion.

10. List two difference between structure and union.

11. How to declare and initialize two-dimensional array.

12. What is histogramming?

SECTION – B

II. Answer any FIVE questions. Each question carries FOUR marks   (5X4=20)

13. What is a flowchart? Explain different flow chart symbols.

14. Write an algorithm to generate Fibonacci sequence.

15. What are different forms of if statements? Explain with example.

16. Write a C program for GCD of two numbers.

17. Explain any two-looping statements with an example.

18. Describe insertion sort with an example.

19. Differentiate between call by value and call by reference.

SECTION – C

III. Answer any TWO questions. Each question carries TEN marks   (2X10=20)

20. Write an algorithm and flow chart to find the roots of quadratic equation.

21. Explain different string library handling functions with an example.

22. Explain different types of operators in C with an example.

23. Write a C program to add and subtract two matrices.

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