

QP Code:

B.M.S. COLLEGE FOR WOMEN

AUTONOMOUS

Basavanagudi, Bengaluru – 560004

NAAC Accredited 'A' Grade

Model Question Paper – B.VOC-IT

Subject – Problem solving Techniques

Time : 2Hours

Max marks: 60

Note: Answer all the sections

PART A

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

1. Define algorithm
2. What is Asymptotic Notation?
3. Explain Variables.
4. Define the formatted input - scanf.
5. Explain if else loop.
6. What is pointer?
7. Define array.
8. Mention different types of array available in 'C'.
9. Define command line arguments.
10. What is sorting?
11. Write any two types of searching.
12. How to reverse a string without string function?

PART – B

Answer any **FIVE** questions. Each question carries **FOUR** marks **(5*4=20)**

13. Explain the structures of 'C' program with an example.
14. Explain any two types of Asymptotic Notation.
15. Write the Fibonacci series algorithm.
16. Short note on standard input and output
17. Explain while loop.
18. Explain an example of switch statement in 'C'.
19. Explain structure of for loop.

PART – C

Answer any **TWO** questions. Each question carries **TEN** marks **(2*10=20)**

20. Write a algorithm to find the product of two matrices.
21. Write flowchart to find factorial of a number.
22. Explain Histogramming concept with example.
23. Short note on for loop and write a C program for bubble sort.
