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B.M.S COLLEGE FOR WOMEN
BENGALURU – 560004

I SEMESTER END EXAMINATION – JAN/FEB-2024

B.C.A- PROBLEM SOLVING TECHNIQUE USING C
(NEP Scheme 2022-23 onwards F+R)

Course Code: BCA1DSC02

Duration: 2 ½ Hours

QP Code:1031

Max. Marks:60

Instructions: Answer all the sections

SECTION - A

Answer any TEN questions. Each question carries TWO marks.

(10x2=20)

1. What is an Algorithm?
2. What is ternary operator?
3. Mention any four tokens in C.
4. What is header file in C? Give an example
5. What is datatypes in C?
6. What is a function?
7. Define global variable with an example.
8. What is the purpose of using static variable in C?
9. What is the use of break statement? Give suitable example.
10. What are command line arguments?
11. What is histogram?
12. What is a pointer? Give an example.

SECTION - B

Answer any SIX questions. Each question carries FIVE marks.

(6x5=30)

13. Explain various format specifier in C.
14. Write an algorithm to reverse a number.
15. Explain the C program structure.
16. Illustrate with example various loops in C.
17. Explain logical operators in C.
18. Explain various control statements in C.
19. Write the difference between Structure and Union
20. What is an Array. Explain its type with example.

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21. Explain any five string functions with an example.

SECTION - C

Answer any ONE question. Each question carries TEN marks.

(10x1=10)

22. Write a c program to find addition and subtraction of two matrices.

23. a) Explain Switch statement with an Example.

b) Explain for loop with syntax

24. Define a function and explain call by value and call by reference with example.

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