



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL

B.Sc. Major 1st Semester Examination, 2023

UCMSMAJ11001-COMPUTER SCIENCE

PROGRAMMING IN C

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

Answer any *five* questions

1×5 = 5

1. What is the significance of main function?
2. How do you declare an array in C?
3. What is extent of variables?
4. What is data type?
5. What is the significance of special operators?
6. What is operator precedence?
7. What is the significance of get()?
8. What is union?

GROUP-B

Answer any *three* questions

5×3 = 15

9. Differentiate between call by value and call by reference.
10. Discuss inline functions by giving examples.
11. How do you manipulate a two dimensional array using loop? Give example.
12. Write a program in C to add all the elements of a two dimensional array.
13. Compare and contrast recursive vs iterative statements.

GROUP-C

Answer any *two* questions

10×2 = 20

14. Explain different types of operators found in C with the help of examples.
15. Write a program in C to demonstrate passing and returning structures.
16. Write a program in C to multiply two matrices of size $n \times n$.
17. Explain conditional statements in C with the help of examples.

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