



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**  
B.Sc. Programme 2nd Semester Examination, 2023

**DSC1/2/3-P2-COMPUTER SCIENCE**  
**PROGRAMMING FUNDAMENTALS USING C**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.*

**GROUP-A**

**Answer any five questions from the following**

1×5 = 5

1. What is variable?
2. How many bytes are there in float data type?
3. What is the function of 'scanf' in C?
4. What is type casting?
5. How many value boolean can hold?
6. What does the following statement produce?  
a = 1;  
++ a;  
printf("%d", a);
7. What is operand?
8. What is the significance of pointers in C?

**GROUP-B**

**Answer any three questions**

5×3 = 15

9. Differentiate between structures and union in C.
10. Discuss file handling in C.
11. Demonstrate the use of 'if...then...else' with the help of a suitable example.
12. Explain enumerated data types in C with the help of an example.
13. Write a program in C to generate fibonacci series upto 'n' terms.

**GROUP-C**

**Answer any two questions from the following**

10×2 = 20

14. Explain different data types available in C. Give examples.
15. What is a storage class? Discuss in detail the difference between all the storage class in C with the help of a suitable example.
16. How do you create multidimensional arrays in C? Write a program in C to multiply two matrices and print the result.
17. Explain different types of loops available in C with the help of a suitable example.

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