



'সমানো মন্ত্র: সপিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

BCA Honours 2nd Semester Examination, 2022

**CC3-BACHELOR OF COMPUTER APPLICATION (22)**

**PROGRAMMING IN JAVA**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.  
All symbols are of usual significance.*

**GROUP-A**

**Answer any five questions**

1×5 = 5

1. What is constant?
2. What is object?
3. Define package.
4. What is Java Virtual Machine (JVM)?
5. Mention four keywords in Java.
6. What is vector in Java?
7. What is typecasting in Java Programming?
8. What is exception?

**GROUP-B**

**Answer any three questions**

5×3 = 15

9. Explain operator precedence and associativity with examples.
10. What is an interface? Write the major differences between an interface and a class.
11. Explain operator overloading with the help of an example.
12. Explain the method of passing string to and from methods with the help of examples.
13. Write a program in Java to generate Fibonacci series.

**GROUP-C**

**Answer any two questions**

10×2 = 20

14. With an appropriate transition diagram discuss the complete life cycle of a thread. 10
15. What is nested loop? With examples discuss various types of loop used in Java. 2+8 = 10
16. How will you create and import package? Explain with the help of a program. 4+6 = 10
17. Write short notes on any *two* of the following: 5×2 = 10
  - (i) Autoboxing
  - (ii) Inheritance
  - (iii) Polymorphism.

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