UNIVERSITY OF NORTH BENGAL
BCA Honours 2nd Semester Examination, 2023

CC3-BACHELOR OF COMPUTER APPLICATION (22)

PROGRAMMING IN JAVA

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 byte code?
2. What is garbage collection?
3. Define data abstruction.
4. What is polymorphism?
5. Explain the use of 'final' keyword.
6. What is the use of 'super' keyword?
7. Why is JAVA known as platform independent?
8. Define package.

GROUP-B
Answer any *three* questions   5×3 = 15

9. Explain Servelet. What is Layout Manager?   3+2
10. Why JDBC is used for database connectivity? Give an example code to make   2+3
    connectivity with database in JAVA.
11. Discuss various primitive data types supported by JAVA.
12. Write a JAVA program to find the biggest number in an array.
13. What do you mean by type conversion? What are the advantages of Thread?   3+2

GROUP-C
Answer any *two* questions   10×2 = 20

14. What do you mean by Inheritance in JAVA? Explain its types. Can you extend   6+4
    more than one class in JAVA? Explain with suitable example.
15. Explain the switch statement with an example. Write a JAVA program to solve   3+7
    the Quadratic equations for each case.
16. Explain the Applet life cycle. How the parameters can be passed to an Applet?   7+3
    Explain with suitable example.
17. Write a JAVA program to convert a given string into upper case. Write a note   7+3
    on 'return' keyword in JAVA.

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