

B.SC(IT) SEMESTER - 4 (NEP-2020) Examination**March/April-2026****Programming in Java (Theory) (Major-8)****Time: 2:00 Hours****Marks:50****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Que.1 Answer the following questions (Any Two) (10)
- 1) Explain features of JAVA.
 - 2) Explain Command Line Argument with example.
 - 3) What is Constructor? List types of constructor Explain parameterized constructor with example.
 - 4) Explain Java Tokens.
- Que.2 Answer the following question. (Any Two) (10)
- 1) What is abstract class? Explain it with suitable example.
 - 2) What is inheritance? Explain multilevel inheritance with example.
 - 3) What is interface? Explain multiple inheritance with interface with example.
 - 4) Explain final class with suitable example.
- Que.3 Answer the following question. (Any Two) (10)
- 1) Explain thread life cycle in JAVA.
 - 2) What is applet? Explain Applet life cycle in JAVA.
 - 3) Explain Grid and Gridbag layout with suitable example.
 - 4) Explain input and output stream class with example.
- Que.4 Answer the following questions. (Any Two) (10)
- 1) Differentiate: AWT V/S Swing
 - 2) Explain Event Delegation Model.
 - 3) Explain MouseEvent with suitable example.
 - 4) What is Adaptor Class? Explain mouse adapter class with example.
- Que.5 Answer the following question. (Any Two) (10)
- 1) What is Array? Explain Jagged array with example.
 - 2) Explain exception handling with example.
 - 3) Explain how to implement synchronization using multi threading.
 - 4) Explain menu component of swing with example.
