

B.C.A 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.

Que.1 Answer the following questions (Any Two) (10)

- 1) Explain Features of Java.
- 2) Explain Tokens in Java.
- 3) Explain Decision Statement in Java.
- 4) Explain Constructor in detail.

Que.2 Answer the following questions (Any Two) (10)

- 1) Explain Access Specifiers in Java (Public, Private, Protected and default).
- 2) Explain Interface in detail.
- 3) Explain Inheritance in detail.
- 4) Explain Exception Handling.

Que.3 Answer the following questions (Any Two) (10)

- 1) Explain Life Cycle of threads.
- 2) Explain Input and Output Stream in detail.
- 3) Explain applet life cycle.
- 4) Explain GridLayout with example.

Que.4 Answer the following questions (Any Two) (10)

- 1) Write difference between AWT and Swing.
- 2) Explain Event Delegation Model.
- 3) Explain JButton, JPanel and JFrame.
- 4) Explain JMenuBar, JMenu, JMenuItem.

Que.5 Answer the following questions (Any Two) (10)

- 1) List looping statement in Java, Explain For loop with example.
- 2) Explain Method Overriding.
- 3) Explain CardLayout with Example.
- 4) Explain ActionEvent, ItemEvent and FocusEvent.
