

B.SC(IT) SEMESTER - 4 (NEP-2020) Examination**March/April-2025****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 following Questions (Any Two) | (10) |
| | <ol style="list-style-type: none">1. Explain JDK Tools and JIT Compiler. Explain Byte Code and Machine Code.2. Explain Java variables and scope of variables. Explain command line arguments.3. Explain Encapsulation and polymorphism.4. Write short note on constructor overloading and method overloading. | |
| Que-2 | Answer following Questions (Any Two) | (10) |
| | <ol style="list-style-type: none">1. Explain universal class and Access Specifies,2. What is interface? Explain with example how to define multiple interface in a single program.3. Write short note on java.lang package classes.4. Write short note on Exception Handling in Java. | |
| Que-3 | Answer following Questions (Any Two) | (10) |
| | <ol style="list-style-type: none">1. Explain Thread class and its method. Explain Daemon and Non-Daemon Thread,2. What is Stream? Explain Types of Stream.3. Write short note on Applet life cycle.4. Explain Flow Layout and GridBag Layout with example. | |
| Que-4 | Answer following Questions (Any Two) | (10) |
| | <ol style="list-style-type: none">1. Explain difference between AWT and swing component. Explain JLabel, JButton, JTextField, JPasswordField with example.2. Explain Menu components with example.3. Write short note on Event Classes.4. Write short note on Listener Interfaces. | |
| Que-5 | Answer following Questions (Any Two) | (10) |
| | <ol style="list-style-type: none">1. Write short note on Data types and Tokens of Java.2. Explain final and Abstract class. Explain normal and static import.3. Explain how to implement and execute Applet with parameters.4. Write short note on Adapter classes. | |
