

B.Sc.(IT) Semester - 4 (CBCS) Examination
March/April-2026 [NEW COURSE]
Programming with JAVA(Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Que. 1 (A) Answer the following questions. (All three) (03)
- 1) What is byte code?
 - 2) Give full form of JVM.
 - 3) Define: Polymorphism.
- Que. 1 (B) Answer the following question. (Any two) (06)
- 1) What are Java Tokens? Explain it.
 - 2) Explain while loop with example. Also give their advantages.
 - 3) Write a short note on Java Operators.
 - 4) Explain array with their types.
- Que. 1 (C) Answer the following question. (Any one) (05)
- 1) What is Class and Object? Explain with example.
 - 2) Write a short note on Constructor. Also explain their types.
- Que. 2 (A) Answer the following questions. (All three) (03)
- 1) Define: Abstract Class.
 - 2) Define: Final Class.
 - 3) Methods declared as _____ cannot be overridden.
- Que. 2 (B) Answer the following question. (Any two) (06)
- 1) Explain Access Modifier (visibility mode) in Java.
 - 2) Explain interface with example.
 - 3) Explain User Define package with example.
 - 4) Explain Random Class with suitable example.
- Que. 2 (C) Answer the following question. (Any one) (05)
- 1) Short note: Inheritance and their types.
 - 2) Explain any five method of Math class
- Que. 3 (A) Answer the following questions. (All three) (03)
- 1) Define: try block.
 - 2) Define: finally block.
 - 3) What is the difference between throw and throws?
- Que. 3 (B) Answer the following question. (Any two) (06)
- 1) Explain File Input Stream Class with example.
 - 2) Explain File Output Stream Class with example.
 - 3) Explain Stream Tokenizer Class in Java.
 - 4) Explain Deamon Thread and Non-Deamon Thread.

- Que. 3 (C) Answer the following question. (Any one) (05)
- 1) Explain Stream with its types.
 - 2) Explain thread life cycle.
- Que. 4 (A) Answer the following questions. (All three) (03)
- 1) Which package is used for Applet?
 - 2) Which package is used for Graphics Class?
 - 3) Which default layout manager for Applet?
- Que. 4 (B) Answer the following question. (Any two) (06)
- 1) Explain Flow Layout with example.
 - 2) Explain Border Layout with example.
 - 3) Explain Grid Layout with example
 - 4) What is No Layout manager? Explain it.
- Que. 4 (C) Answer the following question. (Any one) (05)
- 1) Explain Applet Life Cycle.
 - 2) Explain Graphics Class with its method. (Any five)
- Que. 5 (A) Answer the following questions. (All three) (03)
- 1) What is Swing?
 - 2) What is Event?
 - 3) Give Full Form: AWT
- Que. 5 (B) Answer the following question. (Any two) (06)
- 1) Explain JCombo Box with example.
 - 2) Explain JProgress Bar with example.
 - 3) Explain Text Event Class with example.
 - 4) Explain Event Delegation Model.
- Que. 5 (C) Answer the following question. (Any one) (05)
- 1) Explain Action Listener with example.
 - 2) Explain Mouse Adaptor with example.
