

B.Sc.(IT) Semester - 4 (CBCS) Examination
March/April-2025 [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 following Questions (03)
- 1) What class in Java define finalize() method?
 - 2) What is type casting?
 - 3) Can a static method be overloaded? (Yes/No)
- Que.1(B) Answer Any Two (06)
- 1) Explain JDK, JRE, JVM.
 - 2) Explain Datatypes and tokens in Java.
 - 3) Explain Encapsulation with example.
 - 4) Explain finalize() method with example.
- Que.1(C) Answer Any One (05)
- 1) What is Class and Class members? Explain static and non static members.
 - 2) Explain Constructor. Explain constructor overloading in Java.
- Que.2(A) Answer following Questions (03)
- 1) In Java _____ is root of all classes. Every class of Java implicitly inherits from this class.
 - 2) _____ package is used to manage networking operations such as socket, URLs and IP Addresses
 - 3) _____ keyword is used for inheritance in Java.
- Que.2(B) Answer Any Two (06)
- 1) Explain Abstract and final class.
 - 2) Explain normal import and static import.
 - 3) Explain java.lang package and its class.
 - 4) Explain java.util package and its class.
- Que.2(C) Answer Any One (05)
- 1) Explain how to create and use user define package and sub package?
 - 2) Write short note on interface.
- Que.3(A) Answer following Questions (03)
- 1) _____ block is always executed, whether an exception occur or not.
 - 2) To create, delete, and get information about a file or directory, _____ class is used in Java.
 - 3) _____ package contains the PipedInputStream and PipedOutputStream classes.
- Que.3(B) Answer Any Two (06)
- 1) How to create user defined exception class?
 - 2) Explain Thread life cycle.
 - 3) Explain Stream Tokenizer class.
 - 4) Explain Daemon Thread and non-Daemon Thread.
- Que.3(C) Answer Any One (05)
- 1) Write short note on stream and its types.
 - 2) Explain how to implement text file handling program using Reader class and Writer class.

- Que.4(A) Answer following Questions (03)
- 1) _____ package contains the Applet class in Java.
 - 2) _____ package contains the Graphics class in Java.
 - 3) What will happen if new GridLayout(2, 3) is used?
- Que.4(B) Answer Any Two (06)
- 1) What is NO LAYOUT manager?
 - 2) What is Flow Layout?
 - 3) What is GridBag Layout?
 - 4) Explain how to execute applet with parameter?
- Que.4(C) Answer Any One (05)
- 1) What is Applet? Explain its life cycle with example.
 - 2) Explain BoxLayout, SpringLayout, and GroupLayout.
- Que.5(A) Answer following Questions (03)
- 1) _____ Swing component is used to create a drop-down menu.
 - 2) _____ in the Event Delegation Model, registers itself with an event source to handle events
 - 3) _____ listener interfaces is used to handle mouse events.
- Que.5(B) Answer Any Two (06)
- 1) Discuss difference between AWT and Swing component.
 - 2) Explain JRadioButton and JCheckbox with example.
 - 3) Explain Event Delegation Model.
 - 4) Explain MouseEvent and MouseWheel Event with example.
- Que.5(C) Answer Any One (05)
- 1) Write short note on Listener Interface.
 - 2) Write short note on Adapter classes.
