

Dr. Babasaheb Ambedkar Open University
Term End Examination July – 2026

Course : BCA
Subject Code : BCA-204
Subject Name : Core Java

Date : 09-07-2026
Time : 03:00pm to 05:15pm
Duration : 02.15 Hours
Max. Marks : 70

Section A

Answer the following (Attempt any three)

(30)

1. Explain Java Data Types, Variables and Type Casting.
2. Explain Java Constructors in detail.
3. Explain Polymorphism in Java.
4. Explain Exception Handling in Java.
5. Explain Java Event Handling.

Section B

Answer the following (Attempt any four)

(20)

1. Explain Java Coding Conventions.
2. Differentiate between Abstract Class and Interface.
3. Write a short note on Simple Type Wrappers.
4. Explain Thread Priorities in Java.
5. Write a short note on Applet Life Cycle.
6. Explain Character Streams in Java.

Section C

Part – A (Multiple Choice Questions)

(10)

Q.1 Which Java data type is used to store a single Unicode character?

- A) String B) char
C) byte D) boolean

Q.2 Which type casting is performed automatically by the Java compiler?

- A) Explicit Casting B) Narrowing Conversion
C) Implicit Casting D) Manual Conversion

Q.3 Which keyword refers to the current object of a class?

- A) super B) current
C) this D) self

Q.4 Which feature allows a method to have more than one definition with different parameter lists?

- A) Inheritance B) Method Overloading
C) Method Overriding D) Encapsulation

Q.5 Which exception is checked by the Java compiler during compilation?

- A) ArithmeticException B) NullPointerException
C) IOException D) ArrayIndexOutOfBoundsException

Q.6 Which class is the superclass of all exception classes in Java?

- A) Object B) RuntimeException
C) Throwable D) Error

Q.7 Which thread state indicates that a thread is eligible for execution but not currently running?

- A) Running B) Blocked
- C) Runnable D) Terminated

Q.8 Which class is commonly used to read character data from a text file?

- A) FileInputStream B) BufferedReader
- C) DataInputStream D) ObjectInputStream

Q.9 Which listener interface is associated with button click events?

- A) MouseListener B) KeyListener
- C) ActionListener D) WindowListener

Q.10 Which method is called only once during the life cycle of an applet to perform initialization?

- A) start() B) paint()
- C) init() D) destroy()

Part – B (State whether the following statements are true or false)

(10)

- 1 Widening type conversion is performed automatically in Java.
- 2 The **this** keyword refers to the currently executing object.
- 3 Constructor overloading allows multiple constructors with different parameter lists.
- 4 A user-defined exception is created by extending an existing exception class.
- 5 The **Throwable** class is the root class of exceptions and errors.
- 6 Thread priority influences thread scheduling but does not guarantee execution order.
- 7 Adapter classes provide empty implementations of listener interfaces.
- 8 Character streams are primarily designed for processing text data.
- 9 The **init()** method of an applet is executed every time the applet repaints itself.
- 10 Anonymous inner classes can simplify event handling code.
