

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

Course	: BCA	Date	: 10-07-2026
Subject Code	: BCAMA-301 / BCAOL-301	Time	: 11:30am to 01:45pm
Subject Name	: Object Oriented Concepts & Programming -I	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Explain features of Object-Oriented Programming.
2. Write a note on the class & objects with appropriate example.
3. What is constructor? Explain its different types with appropriate examples.
4. Explain multithreading & its lifecycle with advantages.
5. Define AWT. Explain any four components of AWT with their properties & methods.

Section B

Answer the following (Attempt any four) (20)

1. What is subroutine? How to create & use subroutine in java program?
2. Write a note on hierarchical inheritance with appropriate example.
3. How does binary search method works? Explain step by step process with proper example.
4. What is file? How to create a file & write a string in it?
5. Differentiate Flow Layout Vs. Grid Layout with Example.
6. Write a short note on ArrayList methods with their usage & importance.

Section C

Part – A (Multiple Choice Questions) (10)

1. Which language does the CPU execute directly?
A. Java B. Machine Language
C. Python D. C++
2. _____ keyword is used to create an object in Java.
A. create B. object
C. new D. class
3. Which loop is guaranteed to be executed at least once?
A. for B. while
C. do-while D. enhanced for
4. _____ keyword is used to return a value from a method.
A. break B. return
C. continue D. void
5. _____ is an OOP feature that allows one class to acquire the properties of another class.
A. Encapsulation B. Inheritance
C. Polymorphism D. Abstraction
6. Which class provides a dynamic array in Java?
A. LinkedList B. ArrayList
C. Vector D. Stack

7. _____ method is used to start a thread.
A. execute () B. begin ()
C. start () D. runThread ()
8. Which package contains AWT controls?
A. java.io B. java.net
C. java.awt D. java.util
9. _____ object stores information about an event in Java.
A. EventObject B. EventListener
C. EventHandler D. EventSource
10. Which class is used for drawing lines and shapes in Java?
A. Graphics B. Color
C. Frame D. Canvas

Part - B (Do as Directed)

(10)

1. The CPU repeatedly performs the _____ cycle while executing a program.
2. Write the correct Java keyword to create an object.
3. A while loop always executes at least one time. State True or False.
4. The process of acquiring properties from one class to another is called _____.
5. OOP Stands for _____.
6. An ArrayList stores elements in _____ order.
7. Write the method used to start a thread.
8. FileInputStream is used to read data from a file. State True or False
9. AWT stands for _____.
10. Name the Java class used to draw lines, rectangles and circles.
