

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

Course	: MCA	Date	: 16/02/2026
Subject Code	: MCA-201	Time	: 03:00pm to 05:15pm
Subject Name	: Object Oriented Concepts and Programming	Duration	: 02.15 Hours
		Max. Marks	: 70

Section A

Answer the following (Attempt any three) (30)

1. Define the concept of JDK, JRE and JVM. Explain features of java and its class library in detail.
2. Explain Inheritance with its types using example in detail.
3. Explain Package in detail with example.
4. Explain AWT class hierarchy with its components using example.
5. Write a note on Layout Manager.

Section B

Answer the following (Attempt any four) (20)

1. Explain Looping Statement with example in java.
2. Write a note on Wrapper Class.
3. Explain implementation of queue with its methods.
4. Define an exception. Explain Built-in Exception using example in detail.
5. Define a Thread and explain life cycle of thread in detail.
6. Define the concept of stream in detail along with the difference between character streams and byte streams.

Section C

Part – A (Multiple Choice Questions) (10)

1. _____ is a miscellaneous operator.
A Relational operator B Ternary operator
C Logical operator D None
2. _____ is a function which has same name as class name.
A Constructors B Static
C Finalize() D None of Above
3. More than one method with the same but different signature, this concept is called _____.
A Constructor B Method Overriding
C Method Overloading D All of Above
4. _____ method that cannot be inherited.
A Final B Static
C Only A D Both A and B
5. int capacity() is the method of _____ class.
A Array B String class
C StringBuffer class D All of Above

- 6 To insert a key-value pair in a hashtablemethod is used?
A Insert() B Put()
C add() D Push()
- 7 The value of NORM_PRIORITY is _____
A 1 B 3
C 5 D 10
- 8 _____ can occur in a situation when two or more threads wait indefinitely for each other to relinquish locks.
A Deadlock B Synchronize
C Threads priority D All of Above
- 9 _____ method wakes up a single thread that is waiting on this object's monitor.
A wait() B notify()
C notifyAll() D All of Above
- 10 _____ package also provides a File class that provide support for creating and manipulation of files.
A Java.util B Java.io
C Java.awt D None of Above

Part – B (Do as Directed)

(10)

- 1 What is Literals?
- 2 What is the use of Finalize() method?
- 3 Difference between Abstract class and Interface.
- 4 Define Generic in Java.
- 5 What is Set?
- 6 Instance of operator is a miscellaneous operator which is used to check whether an object is of a specific class type or not. (T/F)
- 7 Vector is a dynamic array which can be shrink or grow as per the requirement. (T/F)
- 8 Throws is a user define exception. (T/F)
- 9 The main thread is created automatically when your program is started. (T/F)
- 10 Event is an act which indicates the changes in the status of an Object. (T/F)
