

Satyug Darshan Institute of Technology, Faridabad

Programme: BCA DS	Year: 3rd Semester: 5th
Subject Name : Java Programming	Subject Code: BCA-23-301
Department: CSE	AY: 2025-2026
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Unit -1

Short Questions

S. No.	Questions	Bloom Taxonomy(KL)
1	Define Java. Write any four features of Java.	L1
2	What is JVM? Explain its role in Java execution.	L2
3	List primitive data types in Java.	L1
4	What is platform independence in Java?	L2
5	Write the syntax of one-dimensional array declaration.	L1
6	What is the difference between == and .equals()?	L2

Long Questions

1	Explain JVM architecture with diagram.	L2
2	Discuss Java operators and expressions with examples.	L2
3	Write a Java program to perform operations on arrays.	L3
4	Compare Java with C++ highlighting key differences.	L3
5	Explain Java program execution process step by step.	L2

Unit -2

Short Questions

S. No.	Questions	Bloom Taxonomy
1	Define class and object.	L1
2	What is constructor?	L1
3	Define inheritance.	L1
4	What is polymorphism in Java?	L2
5	What is an abstract class?	L1
6	What is the use of static keyword?	L2

Long Questions

1	Explain types of inheritance in Java with examples.	L2
2	Explain constructors and constructor overloading with program.	L3
3	Differentiate between abstract class and interface.	L4
4	Write a Java program demonstrating runtime polymorphism.	L3
5	Explain packages in Java and their advantages.	L2

Unit -3

Short Questions

S. No.	Questions	Bloom Taxonomy
1	What is an exception?	L1
2	Difference between checked and unchecked exceptions.	L2
3	What is throw and throws?	L2
4	Define thread.	L1
5	List thread life-cycle states.	L1
6	What is synchronization?	L2

Long Questions		
1	Explain exception handling mechanism in Java.	L2
2	Write a program using multiple catch blocks.	L3
3	Explain thread life cycle with diagram.	L2
4	Differentiate between Thread class and Runnable interface.	L4
5	Explain producer-consumer problem using synchronization.	L4
Unit -4		
Short Questions		
S. No.	Questions	Bloom Taxonomy
1	What is a stream in Java?	L1
2	Difference between byte stream and character stream.	L2
3	Name predefined streams in Java.	L1
4	What is file handling?	L2
5	Define serialization.	L1
Long Questions		
1	Explain Java I/O stream hierarchy.	L2
2	Write a program to read and write data into a file.	L3
3	Explain console input/output in Java.	L2
4	Explain object serialization and deserialization with example.	L2
5	Discuss advantages of serialization in real-world applications.	L4