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Bengaluru

Mid Term Examinations - October 2026

Date: 05/10/2026 **Time:** 02:00 PM - 03:30 PM

Course Code: CSE2255 **Course Name:** Object Oriented Programming Using Java

Semester: Third Semester **Max. Marks:** 50 **Weightage:** 50%

CO - Levels	CO1	CO2
Marks	90	90

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	What is the purpose of the Java Virtual Machine (JVM)?	2	CO1	BT1
2	Distinguish between an identifier and a variable.	2	CO1	BT2
3	Analyze the difference in output between x++ and ++x when used within an expression.	2	CO1	BT2
4	What is the purpose of the 'this' keyword?	2	CO2	BT2
5	What is method signature? Explain with an example.	2	CO2	BT2

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Explain the process of problem solving in programming in detail. Describe the major steps involved from problem definition to program implementation and testing.	10	CO1	BT2
7	Explain the basic structure of a Java program with a suitable example	10	CO1	BT2

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	Explain the different looping statements in Java. Compare **for , while and do-while loops** based on their syntax and execution.	10	CO1	BT3
9	Explain branching statements in Java. Discuss **if , if-else , else-if ladder and switch** statements with examples.	10	CO1	BT3

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Explain the fundamental object-oriented programming principles and discuss how Java supports object-oriented programming	10	CO2	BT2
11	Explain constructors in Java. Discuss their characteristics, purpose and different types with suitable examples.	10	CO2	BT2

PART E: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT

12	Explain the concepts of classes, objects, and instance variables in Java. Illustrate each concept with a suitable Java program.	10	CO2	BT3
13	Write a Java program to demonstrate the concept of a nested class. Create an outer class with a private data member and access the private member through its inner class.	10	CO2	BT3