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Bengaluru

Mid Term Examinations - October 2026

Date: 09/10/2026 **Time:** 09:30 AM - 11:00 AM

Course Code: CSS2255 **Course Name:** Object Oriented Programming Using Java

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

CO - Levels	CO1	CO2
Marks	60	120

PART A: Answer Following Questions. 10 M

Q.N.	Questions	M	CO	BT
1	Define problem solving in programming. List any two steps involved in the problem-solving process.	2	CO1	BT1
2	What is the conditional (ternary) operator? Give its syntax.	2	CO1	BT1
3	Differentiate between next() and nextLine().	2	CO1	BT3
4	What are data members and methods in a Java class?	2	CO2	BT1
5	What is a default constructor? Give an example.	2	CO2	BT1

PART B : Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
6	Explain the structure of a Java program and illustrate each component using a suitable sample program.	10	CO1	BT3
7	Explain identifiers, variables, and constants in Java. Write a Java program demonstrating their declaration and use.	10	CO1	BT3

PART C: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
8	Explain and classify the different data types in Java. Develop a Java program demonstrating the use of different primitive data types.	10	CO1	BT3
9	Explain if, if-else, else-if, and switch statements with suitable examples.	10	CO1	BT3

PART D: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT
10	Explain the principles of Object-Oriented Programming (OOP). Discuss class, object, encapsulation, inheritance, polymorphism, and abstraction with suitable Java examples.	10	CO2	BT3
11	Explain access specifiers in Java. Discuss private, default, protected, and public access specifiers with suitable examples.	10	CO2	BT3

PART E: Answer Any 1 Following Questions. 10 M

Q.N.	Questions	M	CO	BT

12	Explain method overloading in Java with suitable examples. Write a program to create an Calculate class having overloaded add() methods for different types of arguments.	10	CO2	BT3
13	Explain nested classes in Java and demonstrating with examples how members of the outer class are accessed from a nested class.	10	CO2	BT3