END SEMESTER EXAMINATION – AUGUST 2025
COMPUTER SCIENCE- II SEMESTER MCA
24MCA21 – OBJECT ORIENTED PROGRAMMING USING JAVA

Time: 3 Hours   **Max. Marks: 70**

Instruction: *Answer should be written completely in English.*

SECTION - A

Answer any **FIVE** questions. Each question carries **SIX** marks each.   (5X6=30)

1. Write a program to illustrate classes, objects and constructors.

2. Compare method overloading and method overriding with a suitable example.

3. Develop an application using packages.

4. Justify why Java doesn't support multiple inheritance through classes.

5. Write a Java Program to demonstrate JDBC SQLException.

6. Create a class with exception handling for division by zero.

7. Create a simple JavaFX app with a label, a text field, and a button. When the button is clicked, show the text below.

8. Apply VBox and GridPane layouts to create a login page.

SECTION - B

Answer any **FOUR** questions. Each question carries **TEN** marks each.   (4X10=40)

9. Compare abstract classes and interfaces with suitable examples.

10. Develop a generic class and method to perform addition of any two numeric types.

11. Write a program where all vehicles can start and stop. Add a special feature for buses to show the route using abstract classes and interfaces.

12. Write a program to demonstrate Java Collection.

13. Design a small JavaFX Application that displays a menu.

14. Create a JavaFX app with a button and a label to show the number of times the button is being clicked.