Reg.No.........................

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2025
(Regular/Improvement/Supplementary)
COMPUTER SCIENCE
FCSS3C12-OBJECT ORIENTED PROGRAMMING CONCEPTS

Time: 3 Hours   **Maximum Weightage: 30**

Section A: Short answer questions. Answer any *four* questions. Each carries *two* weightage.

1. Write any two features of OOP.

2. Why is Java considered as platform independent?

3. What is the role of 'new' operator?

4. Write the syntax of thread creation.

5. Elaborate AWT and write its usages.

6. Write any four event sources.

7. How a socket is constructed for data communication?

(4 × 2 = 8 weightage)

Section B: Short essay questions. Answer any *four* questions. Each carries *three* weightage.

8. Describe various control structures with suitable examples.

9. Elaborate on type casting and conversions.

10. Explain how finalize keyword useful in connection with constructors.

11. Write a brief account on abstract classes.

12. Write a JAVA program to perform an arithmetic exception handling.

13. What are the important classes essential for establishing a database connection?

14. Compare deployment diagram with state and activity diagram.

(4 × 3 = 12 weightage)

Section C: Essay questions. Answer any *two* questions. Each carries *five* weightage.

15. Explain the complete process of java program compilation, interpretation and execution with necessary diagrams. Write a program to find second largest number among three numbers.

16. Provide a detailed description of the various options available for file management in JAVA.

17. What are the various options to perform event handling mechanism in JAVA programming? Explain.

18. Explain in detail about JDBC connectivity. Write a library management program.

(2 × 5 = 10 weightage)