

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2024**(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. Why java is called as a platform independent?
2. What is the purpose of final and static keyword in java?
3. Explain method overriding with example.
4. What do you mean by an exception? Explain how an exception is caught in a method.
5. What is the purpose of synchronization?
6. Explain different event classes.
7. Discuss in detail the state and activity diagram.

(4 × 2 = 8 weightage)**Section B: Short essay questions. Answer any *four* questions. Each carries *three* weightage.**

8. Explain the difference between entry-controlled loop and exit-controlled loop. Illustrate with suitable example.
9. How are *this* and *super* keywords used with constructors? Write with example.
10. How can multiple inheritance is implemented in java? Explain with example.
11. Describe character stream classes in java.
12. Define Japplets. Explain the differences between Japplet and applets.
13. What is JDBC and write the role of Driver in JDBC.
14. Write a short note on:
i) InetAddress ii) server sockets iii) datagrams.

(4 × 3 = 12 weightage)**Section C: Essay questions. Answer any *two* questions. Each carries *five* weightage.**

15. Explain the basic principles of object oriented programming with examples.
16. What is polymorphism. How we can achieve polymorphism in java? Explain with suitable example.
17. Describe the different ways by which thread can be created in java? Explain with example.
18. Explain different AWT classes. Explain how can one use graphics and colors in java applications.

(2 × 5 = 10 weightage)