

**THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2022**  
**(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. What are the differences between Switch – Case and if else loops?
2. What is the role of ‘this’ keyword?
3. Compare the features of Class and Interface
4. What is an Exception? Which are the types of exceptions?
5. Which are the methods used in Thread programming?
6. Expand AWT. What is the usage of AWT?
7. Explain state activity diagram.

**(4 × 2 = 8 weightage)**

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

8. How Break statement and Continue statements work in a Java Program?
9. What is the difference between Method overloading and method overriding? Explain.
10. Which are the methods used to create threads in Java? Discuss.
11. Create a parameterized applet program to add two numbers.
12. What is a Layout manager? Which are the types?
13. Explain JDBC, ODBC, RDBMS and use of Database drivers.
14. Explain state activity diagram.

**(4 × 3 = 12 weightage)**

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

15. Write a java program to perform multiplication of two 3X3 matrices.
16. What is the use of ‘super’ keyword in Java? Where it is used and why? Explain with suitable program.
17. a) Write a java program to demonstrate multithread programming.  
b) What is the concept behind synchronization?
18. Explain in detail about various diagrams in UML. Discuss the functionality and role of each of them.

**(2 × 5 = 10 weightage)**