THIRD SEMESTER M.Sc. DEGREE EXAMINATION, NOVEMBER 2023
(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 is object identity in object oriented programming?

2. Differentiate between Break and Continue statements with example.

3. What is parameterized constructor?

4. Describe character stream classes in java.

5. How inter-thread communication is achieved in java?

6. Differentiate between Swing and AWT components.

7. What is a datagram? Explain the java classes that use datagram.

(4 × 2 = 8 weightage)

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

8. Write a short note on: a) Data Hiding   b) Byte Code   c) Java Virtual Machine.

9. What is an interface? Explain the purpose of interface in java.

10. Explain Synchronization in multi threading.

11. Differentiate between Japplet and Applets with example.

12. Describe any for commonly used controls while designing a GUI using swing.

13. Explain how a database can be accessed using JDBC?

14. Differentiate between Method overloading and Method overriding with example.

(4 × 3 = 12 weightage)

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

15. What is an array? Explain different types of array with example.

16. Differentiate between abstract class and interface. Give suitable situations where abstract class and interface are used.

17. What is an exception? How can you create a user defined exception in java? Explain different ways of handling an exception.

18. Define Unified Modelling Language. Explain the difference between component diagrams and deployment diagrams.

(2 × 5 = 10 weightage)