

**FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2024**

**(Regular/Improvement/Supplementary)**

**COMPUTER SCIENCE**

**GBCS5B08T: JAVA PROGRAMMING**

**Time: 2 Hours**

**Maximum Marks: 60**

**SECTION A: Answer the following questions. Each carries *two* marks.**

**(Ceiling 20 marks)**

1. What is serialization in files?
2. How do you read from a file using File Reader class?
3. What is the default layout for Applet?
4. Define Modularity.
5. When is update () method called in applet?
6. Describe the purpose of sleep () method of thread class.
7. Define polymorphism.
8. What is attribute in object orientation?
9. Write a Java applet program to draw ellipse and circle.
10. What is the use of Window class?
11. What are the various constructors of list class?
12. What is the purpose of continue statement in java?

**SECTION B: Answer the following questions. Each carries *five* marks.**

**(Ceiling 30 marks)**

13. Describe the advantages and disadvantages of OOPS.
14. What is the difference between an Applet and a Java Application?
15. How to add and remove Event Listeners in Java?
16. What is the difference between JDK, JRE, and JVM?
17. Explain thread priority in multithreading.
18. Differentiate between data abstraction and encapsulation.
19. What are the different methods of output stream class?

**SECTION C: Answer any *one* question. The question carries *ten* marks.**

20. What is constructor? Explain briefly the concept of constructor overloading with example.
21. Describe JDBC architecture. Write a program to retrieve and display employee details from an employee database created using JDBC.

**(1 x 10 = 10 Marks)**