D5BCS2302 **Reg. No.....**

Name: .....

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2025

(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. Define Streams in Java.
2. Comment on API.
3. What is 'init()' in applets?
4. List out the various applications of OOPS.
5. Give the syntax and example of conditional operator.
6. What is variable size array in Java?
7. What is 'super' in java?
8. Define state in object orientation.
9. State the difference between the paint() and repaint() method.
10. Define event handling.
11. Differentiate between drawPolygon and fillPolygon in Java.
12. What is the use of setLayout function.

SECTION B: Answer the following questions. Each carries *five* marks.
(Ceiling 30 marks)

13. Write a program to read from and write to a file using byte stream.
14. Write a short note on menus and menu bars in Java.
15. Differentiate between data abstraction and encapsulation.
16. Describe the structure of a java program.
17. What is the purpose of static methods and variables?
18. Write a short note on object oriented programming languages.
19. What are Component and Container classes in AWT?

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

20. What is Multithreading? Explain the two ways of implementing thread in Java?
21. What is applet programming? Describe in detail the life cycle of an applet with the help of a diagram.

(1 x 10 = 10 Marks)