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# FOURTH SEMESTER B.Sc. DEGREE EXAMINATION, APRIL 2025

## (Regular/Improvement/Supplementary)

### COMPUTER SCIENCE & MATHEMATICS (DOUBLE MAIN)

# GDCS4A02T: JAVA PROGRAMMING

### Time: 2 <sup>1</sup>/<sub>2</sub> Hours

## Maximum Marks: 80

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

# (Ceiling 25 marks)

- 1. List out any four java versions.
- 2. What are the types of applets?
- 3. Write any two rules for defining an identifier.
- 4. List out selection statements in java.
- 5. Write an example for while loop.
- 6. Define the term class.
- 7. Write any two features of OOP.
- 8. Explain multithreading.
- 9. What is an event?
- 10. How to draw polygon in graphics with syntax?
- 11. What is the use of init() method?
- 12. Differentiate between throw and throws statement in java.
- 13. What is the role of JDBC driver manager?
- 14. How can you execute SQL queries in java database connection?
- 15. What do you mean by JSP?

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

#### (Ceiling 35 marks)

- 16. Write a detailed note on exception handling in Java.
- 17. Write short notes on polymorphism and modularity.
- 18. Explain about packages in java.
- 19. Differentiate thread and process.
- 20. Explain any four methods in graphics class.
- 21. Compare applet and applications.
- 22. Explain the features of Java.
- 23. What is Java Servlet? Explain its features and advantages.

### SECTION C: Answer any two questions. Each carries ten marks.

- 24. With a neat diagram, explain the JVM architecture.
- 25. Briefly explain the operator in java.
- 26. A) What are layout managers? Explain its features.
  - B) How to draw lines and rectangles? Explain with example.
- 27. What is JDBC? Explain the steps in connecting and accessing databases using JDBC.