



QP CODE: 25050584



Reg No :

Name :

MSc DEGREE (CSS) EXAMINATION DECEMBER 2025

First Semester

M Sc OPERATIONS RESEARCH AND COMPUTER APPLICATIONS

Core Courses - CE020105 - JAVA PROGRAMMING

2019 Admission Onwards

A4C891D3

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What are the OOP Principles?
2. What do you mean by bytecode?
3. Describe method overloading.
4. What is String in java? Is String a data type?
5. When we need to use extends and implements?
6. Define exception. Give an example.
7. Write the use of <applet> tag.
8. What are IO streams in Java?
9. Define source and event.
10. Write the general form of a method that allows a listener to unregister an interest in a specific type of event.

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Why we use variables in programming? Give examples.
12. Differentiate between one dimensional array and two dimensional array.
13. What are the various access specifiers for Java classes?
14. How final keyword prevents inheritance?





15. Explain the usage of Java packages.
16. Differentiate between the Thread class and Runnable interface for creating a Thread?
17. Write a program in JAVA to draw five red circles in the applet.
18. Explain AWT Label Control.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Explain control statements in java with the help of suitable program segments.
20. Explain three types of inheritance with suitable examples.
21. Explain the creation of a thread by implementing Runnable interface with suitable example.
22. Write notes on the following
a) drawArc() b) fillArc() c) setColor() d) drawLine() e) drawRect()

(2×5=10 weightage)

