

QP CODE: 24019097



Reg No : .....

Name : .....

**MSc DEGREE (CSS) EXAMINATION , APRIL 2024**

**Second Semester**

M.Sc.COMPUTER SCIENCE (DATA ANALYTICS)

**CORE - CA030204 - PROGRAMMING WITH JAVA**

2020 Admission Onwards

BDF2D48B

Time: 3 Hours

Weightage: 30

**Part A (Short Answer Questions)**

*Answer any **eight** questions.*

*Weight 1 each.*

1. Write short note on JDK.
2. Define Class, Method and Object? Show the syntax to define these in java.
3. What is method overriding?
4. What is a Constructor? Explain types of Constructors in Java?
5. What is stream? Discuss the different types of stream classes in Java?
6. What are uncaught exceptions?
7. Define Main Thread.
8. Compare start() and run() methods.
9. Which are the various sources of events? Give the events generated by each source.
10. What is Stream class?

(8×1=8 weightage)

**Part B (Short Essay/Problems)**

*Answer any **six** questions.*

*Weight 2 each.*

11. Illustrate the Iteration Statements with example.
12. What is an Array? Explain types of arrays in Java with example.
13. Compare Method Overriding and Method Overloading with example.
14. Discuss any 3 uses of 'final' keyword with example.





15. Explain various class member access protections used in Java.
16. Define Swing. Describe the various Swing component classes and its uses.
17. Differentiate between JCheckbox and JRadioButton.
18. How to Commit a Query in JDBC?

(6×2=12 weightage)

### **Part C (Essay Type Questions)**

*Answer any **two** questions.*

*Weight 5 each.*

19. Explain in detail various types of inheritance with suitable examples.
20. What do you mean by constructor? List out the uses of it. Discuss the concept of constructor overloading with a suitable example.
21. Illustrate with an example the use of suspend() and resume() methods to pause and restart the execution of a thread.
22. Write a java program to develop Login Window using Swing.

(2×5=10 weightage)

