

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai - 600 044.

B.Sc.Computer Science - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - IV

**23UCSCT4005 - Programming in Java**

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

**Section B**

Answer any **SIX** questions ( $6 \times 5 = 30$  Marks)

1. Explain Java control statements with examples.
2. Demonstrate the concept of method overriding with an example.
3. Analyze the role of interfaces in Java. Provide an example.
4. Write a Java program to implement multithreading using the Runnable interface.
5. Compare the different types of constructors in Java.
6. Evaluate the importance of packages in Java programming.
7. Explain exception handling with the try-catch-finally block in Java.
8. Discuss different types of applets and their applications in Java.

**Section C**

Answer any **THREE** questions ( $3 \times 10 = 30$  Marks)

9. Explain the different data types and operators in Java with examples.
10. Describe the concept of inheritance in Java with suitable examples.
11. Justify the importance of abstract classes and interfaces in Java.
12. Analyze different thread states and inter-thread communication in Java.
13. Compare and contrast the use of Graphics and Color classes in Java for graphical programming.

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