## 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. END SEMESTER EXAMINATIONS NOVEMBER-2022 SEMESTER - V 20UCACT5009 - Programming in Java

Total Duration : 2 Hrs 30 Mins.

Total Marks : 60

## Section A

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

- 1. A cloth shop during festival seasons offers a discount of 12% on all purchases made in that shop. The bill amount for a customer is given as Rs.750.5. Write a program to calculate the discount, amount after discount and print it out.
- 2. Illustrate the representation of 2 dimensional array
- 3. Elucidate the different forms of inheritance? Explain.
- 4. Differentiate Method Overloading and Method Overriding.
- 5. Explain the concept of exceptions and how they are handled with suitable example.
- 6. What is multithreading and what are the methods for inter-thread communication?
- 7. What is the difference between byte streams and character streams? How are they used to capture input from the user?
- 8. Describe the different types of JDBC drivers.

## Section B

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Answer any THREE questions (3 \times 10 = 30 \text{ Marks})
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- 9. Discuss various object oriented concepts in detail.
- Demonstrate a Java program for Employee class with the following Data members, Employee ID, Employee name, Basic, DA, PF, and NetSalary and two methods to accept and display all the members.

## (Note: Netsalary=Basic+DA-PF)

- 11. Formulate the concept of Interface. Explain the implementation of interface and its advantages.
- 12. Classify the different AWT controls.
- 13. Demonstrate a Java program to connect java application with student database.

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