

Roll.No.

22UCSCT6010

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 - NOVEMBER 2025
SEMESTER - VI

22UCSCT6010 - Software Engineering and Testing

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

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

1. Elucidate the Process Framework in Software Engineering.
2. Interpret the key tasks involved in Requirements Engineering.
3. Analyse the concepts of Flow-Oriented and Scenario-Based Modeling, with their contribution for effective software analysis and design.
4. Illustrate the steps in User Interface Design.
5. Classify the different types of Software Testing Strategies.
6. Compute the steps in Eliciting and Validating Requirements.
7. Infer the Object-Oriented Analysis with examples.
8. Evaluate the effectiveness of Basis Path Testing and Control Structure Testing.

Section C

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

9. Describe the different Software Process Models with neat diagrams.
10. Predict the complete Requirements Engineering Process and its activities.
11. Ascertain the Design Process, Design Principles, and Design Quality with suitable examples.
12. Examine the process of Component-Level Design and the role of OCL in component definition.
13. Evaluate the Software Testing Life Cycle (STLC) and compare Black Box and White Box testing techniques.
