

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.Com.CA - END SEMESTER EXAMINATIONS - APRIL 2025

SEMESTER - V

**21UCCCT5013 - Software Testing**

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

### **Section B**

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

1. Explain the evolution of software development and the emergence of software engineering.
2. What are the advantages and disadvantages of the Rapid Application Development (RAD) model?
3. Describe the role of Data Flow Diagrams (DFD) in structured analysis.
4. Compare function-oriented design with object-oriented design approaches.
5. Explain the principles of software testing and their significance in software quality assurance.
6. Differentiate between Black-box testing and White-box testing with examples.
7. What is the importance of acceptance testing and installation testing in software deployment?
8. How are decision tables used in software testing? Provide a suitable example.

### **Section C**

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

9. Compare different software life cycle models such as Waterfall, Agile, and Spiral models.
10. Explain the characteristics of good software design, focusing on cohesion and coupling.
11. What are software inspections and walkthroughs? How do they help in defect detection?
12. Compare top-down and bottom-up testing approaches. Which is better and why?
13. Explain state transition testing and how state graphs help in identifying defects.

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