

**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 APRIL-2022**

**SEMESTER - VI**

**19UCSET6D02 - Software Engineering and Testing**

**Total Duration : 3 Hrs.**

**Total Marks : 60**

**Section A**

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

1. Write down the drawbacks of waterfall process model.
2. What are the characteristics of software?
3. Draw a use case diagram for library management system.
4. Explain the design steps in transform mapping.
5. Describe the sequence of user interface design process.
6. Distinguish between alpha and beta testing.
7. Define the following terms in software engineering: i) Stakeholder ii) UML.
8. Distinguish between black box and white box testing.

**Section B**

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

9. Describe the different phases involved in evolutionary models.
10. Explain how DFDs and ER diagrams are useful in software development.
11. What is SRS? Explain its importance in software development.
12. Discuss the role of cohesion and coupling in software design.
13. Explain the various testing strategies used for conventional software.

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