

**BACHELOR OF TECHNOLOGY (CBCS) (2021-COURSE)**  
**B. Tech. Sem - V Computer Science & Engineering-A&M : WINTER : 2024**  
**SUBJECT: ITC-III: SOFTWARE ENGINEERING**

Day : Thursday  
Date : 12/12/2024

W-23959-2024

Time : 02:30 PM-05:30 PM  
Max. Marks : 60

**N.B.:**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat labelled diagrams **WHEREVER** necessary.

- Q.1 What is software? What are the characteristics of Software? (10)
- OR
- Q.1 What are the key challenges faced in software Engineering. (10)
- Q.2 Explain the Software Process Framework. (10)
- OR
- Q.2 Explain COCOMO model in detail. (10)
- Q.3 Write DFD for Library Management System. (10)
- OR
- Q.3 Explain the characteristics of SRS. (10)
- Q.4 Explain design issues in detail. (10)
- OR
- Q.4 Differentiate between Cohesion and Coupling. (10)
- Q.5 Explain the types of testing in detail. (10)
- OR
- Q.5 Differentiate between Black box testing and White box testing. (10)
- Q.6 Explain Scrum methodology with suitable diagram. (10)
- OR
- Q.6 Explain any one agile process in Software Engineering. (10)

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