

II B. TECH II SEMESTER REGULAR EXAMINATIONS, AUGUST 2021
SOFTWARE ENGINEERING
(Common to CSE and IT Branches)

Time: 3 hours

Max. Marks: 60

Note: Answer **ONE** question from each Unit (**5 × 12 = 60 Marks**)

UNIT - I

1. a) What is Software Engineering? List and explain Software Engineering challenges. [8M]

b) What is the emergency of Software Engineering? [4M]

(OR)

2. a) Illustrate Spiral model with neat sketch. [8M]

b) Define Process Model. What are the elements of Process Model. [4M]

UNIT – II

3. a) Illustrate and discuss any two Team Structures with a neat diagram. [6M]

b) Compare and contrast Project Vs Product life cycles. [6M]

(OR)

4. a) Explain briefly about Effort Estimation Techniques. [8M]

b) Compare and contrast different Project Scheduling Methods. [4M]

UNIT – III

5. a) Define Data Flow Diagram (DFD) and Draw a DFD up to 2 level for ATM. [8M]

b) Illustrate Structured Analysis with its Pros and Cons. [4M]

(OR)

6. a) Explain the importance of requirements Engineering Process. [6M]

b) Compare and contrast Data oriented and Object oriented analysis. [6M]

UNIT –IV

7. a) Show the differences between Coupling and Cohesion? [6M]

b) What is Software Design Process? List and Explain the Design Principles. [6M]

(OR)

8. a) Compare and contrast design methodologies. [6M]

b) What is the role of “Software Architecture” in Software Engineering. [6M]

UNIT –V

9. a) What is the need of software testing? What are its main objectives and principles? [6M]

b) Compare and contrast the differences between Black box and White box Testing [6M]

(OR)

10. a) Illustrate the concept Debugging approaches. [4M]

b) Explain various software quality standards and discuss how to assure them. [8M]

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