Code No: R203142A   **R20**   SET - 1

III B. Tech I Semester Supplementary Examinations, July – 2023
SOFTWARE ENGINEERING
CSE(AIML),CSE(AI),CSE(DS),CSE(AIDS),IOTCSIBCT,CSE(IOT),AIDS,AIML

Time: 3 hours   Max. Marks: 70

Answer any **FIVE** Questions **ONE** Question from **Each unit**
All Questions Carry Equal Marks
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UNIT-I

1. a) Define Software, Software Engineering. Illustrate the characteristics of software that are considerably different from software. [7M]
   b) Explain in detail the Unified Process Model. [7M]

(OR)

2. a) Explain in detail the Waterfall Model. [7M]
   b) What is PSP and TSP? Explain. [7M]

UNIT-II

3. What is Extreme Programming? Explain the Extreme Programming Process. [14M]

(OR)

4. a) Explain any two agile Process Models. [7M]
   b) Explain the core principles that are fundamental to the practice of Software Engineering. [7M]

UNIT-III

5. a) With an example explain how Use case helps in Scenario Based modeling. [7M]
   b) Explain the process of Creating a Behavioral Model. [7M]

(OR)

6. a) Explain the Data Modeling Concepts. [7M]
   b) Explain the Requirements Modeling for Webapps. [7M]

UNIT-IV

7. a) Explain the design concepts Abstraction and Functional Independence. [7M]
   b) What is Coupling? Explain different types of Coupling. [7M]

(OR)

8. a) Explain the Object oriented Design Concepts. [7M]
   b) What is Cohesion? Explain different types of Cohesion. [7M]

UNIT-V

9. a) Explain the three Golden Rules for the Interface Design. [7M]
   b) Explain the Validation Testing Activities. [7M]

(OR)

10. a) Explain the Interface Design Steps. [7M]
    b) What is Debugging? Explain the process of Debugging. [7M]

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