II B. TECH I SEMESTER REGULAR EXAMINATIONS, MARCH - 2022
SOFTWARE ENGINEERING
(Common to CSE, INF, CSM and CIC)

Time: 3 Hours   **Max. Marks: 70**

Note : Answer **ONE** question from each unit **(5 × 14 = 70 Marks)**
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UNIT-I

1. a) What are the necessities of Life cycle model? Elaborate on the various issues [8M] of Software life cycle.

   b) What is the emergency in Software Engineering and give a clear view of [6M] classification in software engineering?

(OR)

2. a) What are the Fundamental Activities of a Software Process? [8M]

   b) What is a process? Enlist the key aspects of process model. [6M]

UNIT-II

3. a) Explain the basis path testing in detail. [8M]

   b) What are team structures? Analyse taking any two sample team structures. [6M]

(OR)

4. a) Compare software measurements and metric. State the measurements [8M] principles.

   b) Discuss in detail about Project Scheduling. [6M]

UNIT-III

5. a) Define Requirement Engineering. Categorize seven distinction tasks to fulfill [8M] the needs of the project.

   b) Explain DFD using an example. [6M]

(OR)

6. a) Analyse the importance of Object Oriented Analysis over the Data Oriented [8M] Analysis.

   b) How to select the appropriate prototyping approach? Explain. [6M]

UNIT-IV

7. a) Explain the fundamental software design concepts in detail [8M]

   b) What are different types of architectural styles that exist for software and [6M] explain any one software architecture.

(OR)

8. a) Explain about structure design methodologies and what is the importance of transaction analysis and logical designing? [8M]

   b) Define the concept of cohesion and coupling. State the difference. [6M]

UNIT-V

9. a) Explain the testing objectives and its principles. [8M]

   b) What is black box & white-box testing? Explain how basis path testing helps to derive test cases to test every statement of a program. [6M]

(OR)

10. a) Explain Integration & debugging activities? [6M]

    b) Illustrate how software quality assurance is achieved. [8M]

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