

**FUNDAMENTALS
OF SOFTWARE
DEVELOPMENT
(3341603)**

UNIT-I

Software Development Process

1. What is software engineering? Explain characteristic of software engineering.
2. Explain waterfall model in detail with advantages and disadvantages.
3. Explain RAD model in detail.
4. Explain incremental model in detail.
5. Describe spiral model with diagram.
6. What are the myths about software in software industries?

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MSP

UNIT-II

Software Analysis and Design

1. List out and explain requirement gathering and analysis techniques.
2. Explain Use case diagram with example.
3. Explain Activity diagram with example.
4. Explain DFD diagram with example.
5. Explain ER diagram with example.
6. List out and explain characteristic of good SRS.
7. Explain coupling and cohesion classification.

Give the Following answer.

1. Define cardinality and Modality.
2. Define SRS.
3. What is module?
4. Define Cohesion and coupling.
5. Differentiate between functional and non functional requirement.
6. What is context diagram?
7. Write advantage and disadvantage of DFD.

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UNIT-III & IV

Software Project Management

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Software Coding and Testing

1. Explain Heuristic estimation technique (COCOMO).
2. Explain empirical estimation technique.
3. What is project size? Define LOC and explain important shortcoming of LOC.
4. Differentiate work breakdown structure between activity network.
5. Define Risk. Explain important category of risks that affect software development.
6. Risk control or Explain RMMM.
7. Differentiate: Black box testing and white box testing.
8. Explain unit testing.
9. Explain code walkthrough.

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