System Analysis & Design – SEM 4

Unit -1

1. Explain System Characteristics.
2. Write Role and Attribute of System Analyst.
3. Explain Second Phase of System Development Life Cycle.
4. Explain Last Phase of SDLC.
5. Explain Design Phase of SDLC.
6. Explain fact finding techniques.
7. Explain feasibility study.

Unit – 2 (Domain may vary for any Travel Agency, Pizza House, Hospital Management System or any Educational Institute)

1. Draw use case diagram for "Vijay Khaman House". (use your assumptions or experience)
2. Draw Structured Chart for "Vijay Khaman House". (use your assumptions or experience)
3. Draw Data Flow Diagram (Bubble Chart) for "Vijay Khaman House". (use your assumptions or experience)
4. Draw Database model diagram of "Vijay Khaman House".
5. Draw Activity Diagram of "Vijay Khaman House".

Unit -3

1. Write short note Software Engineering: A Layered Technology.
2. Write short note on Waterfall Model.
3. Write short note on Iterative Model.
4. Explain V-Model.
5. Explain Spiral Model.
6. Prototyping Model.

Unit -4

1. Write short note on Function Point and FP based metrics.
2. Write short note on LOC based Metrics. (Size Oriented Metrics)
3. Why Project Economics should be considered in software development?
4. What is the use of PERT chart ? What is CPM ?
5. What is Timeline chart ? How to construct it?
6. Explain Project Management Concepts
7. Discuss the importance of Network Diagram.
8. Explain Capability Maturity Model.

Unit – 5

1. What is software fault how it differs from error?
2. Explain Testing artifacts.
3. Write Difference between static and dynamic testing.
4. Write short note on testing levels and techniques.
5. Giving an example of software testing tools explain automated testing. (Selenium) – Click Link
6. Discuss the importance of Capability Maturity Model.
7. Compare and Contrast Alpha and Beta Testing.
8. "Quality Depends on Adequate Testing of any software" - Justify