**UNIT-1**

1. List and explain in detail about the characteristics of software.
2. Discuss in detail about the functionality of waterfall model with a neat sketch.
3. Explain in detail about the concept of capability maturity model integration and their maturity levels with a neat diagram.
4. Illustrate in detail about the process of incremental process model with a neat sketch.
5. Describe in detail about various phases of agile software development life cycle with a neat diagram.
6. Explain in detail about the following techniques or methods of agile SDLC.
7. Scrum b) DSDM c) Crystal
8. Discuss in detail about the life cycle of a spiral model with a neat diagram.

**UNIT-2**

1. List and explain in detail about Functional and Non - functional requirements of software engineering.
2. Discuss in detail about User requirements and System Requirements with example.
3. Explain in detail about the concept of Interface specification with example.
4. Describe in detail about the following:
5. Software requirement specification b) Feasibility study
6. Explain in detail about the process of Requirements elicitation and analysis with a neat sketch.
7. Illustrate in detail about the functionality of Requirements validation and Requirements Management with example.
8. Distinguish in detail about Context model and Behavioral model with examples.
9. Analyze in detail about the following system models:
10. Data model b) Object model