1. List and explain any 4 system perspectives in system modeling

2. Demonstrate scenario testing with an example.

3. Explain user testing? List 3 types.

4. Explain the different types of UML Diagrams.

5. Illustrate what is event driven modeling.

6. Explain sequence diagram with the help of an example

7. What is event-driven modeling. Show a simple diagram of state model for microwave oven operation

8. Illustrate class diagrams with the help of an example diagram. How effective is it in system modeling?

9. Explain behavioural models. Draw a simple activity model of the insulin pump's operation

10. Compare software inspection and software testing. Model the software testing process with a diagram.

11. Explain the Observer design pattern in detail.

12. What is test-driven development (TDD)? Identify the activities and benefits of TDD

13. What is release testing? How does it differ from system testing.

14. Explain aggregation and generalization in System Modeling.

15. Compare state diagram and activity diagram types.

16. What is system modeling? Explain the role of use case diagrams.

17. Demonstrate scenario testing with an example

18. What is a design model. Show the 2 types of design models.

20. What are the key elements of a Sequence Diagram? Explain how they contribute to understanding system behavior with a Sequence Diagram for "View Patient Information."

21. Illustrate the concept of Model Driven Engineering. What are its benefits and challenges?

22. Explain the difference between a context model and a use case model. How do they complement each other?

22. What is test-driven development (TDD)? Illustrate with an example how test-driven development (TDD) helps improve code reliability.

23. What is a design pattern? Identify the four essential elements of design patterns. Outline any 4 patterns used in design problems

24. What is Component Testing? Outline the different types of interface errors that can occur. Also list interface testing guidelines

25. What is user testing? Examine the six stages of acceptance testing process with a neat diagram.