

IT- 13 Object Oriented Software Engineering

1. What is the primary goal of System Development Life Cycle (SDLC)?

- A. Rapid prototyping
- B. Efficient project management
- C. High-quality software development
- D. Continuous integration

Answer: C. High-quality software development

2. Which software development model follows a sequential approach?

- A. Waterfall Model
- B. Spiral Model
- C. RAD Model
- D. Agile Model

Answer: A. Waterfall Model

3. Which model emphasizes the need to develop a prototype early in the development process?

- A. Waterfall Model
- B. Spiral Model
- C. RAD Model
- D. Agile Model

Answer: C. RAD Model

4. Which model incorporates risk management throughout the development process?

- A. Waterfall Model
- B. Spiral Model
- C. RAD Model
- D. Agile Model

Answer: B. Spiral Model

5. Which development approach focuses on iterative development and incremental improvements?

- A. Waterfall Model
- B. Spiral Model
- C. RAD Model
- D. Agile Model

Answer: D. Agile Model

6. Which type of requirements defines what the system should do?

- A. Functional requirements
- B. Non-functional requirements

- C. Performance requirements
- D. User requirements

Answer: A. Functional requirements

7. Which phase of Requirement Engineering involves gathering information about the existing system?

- A. Elicitation and Analysis
- B. Specification
- C. Validation
- D. Management

Answer: A. Elicitation and Analysis

8. Which document specifies all the software requirements in detail?

- A. Software Design Document
- B. Software Requirement Specification (SRS)
- C. Software Development Plan
- D. System Architecture Document

Answer: B. Software Requirement Specification (SRS)

9. Which organization provides standard formats for Software Requirement Specification (SRS)?

- A. ISO
- B. IEEE
- C. ANSI
- D. IEC

Answer: B. IEEE

10. Which of the following is an example of a behavioral diagram in UML?

- A. Class Diagram
- B. Object Diagram
- C. Use Case Diagram
- D. Component Diagram

Answer: C. Use Case Diagram

11. Which diagram is used to represent the flow of activities within a system?

- A. Use Case Diagram
- B. Activity Diagram
- C. Sequence Diagram
- D. Collaboration Diagram

Answer: B. Activity Diagram

12. Which diagram shows the interactions between objects in a system?

- A. Use Case Diagram
- B. Activity Diagram
- C. Sequence Diagram
- D. Collaboration Diagram

Answer: C. Sequence Diagram

13. Which diagram represents the static structure of a system?

- A. Use Case Diagram
- B. Activity Diagram
- C. Class Diagram
- D. State Transition Diagram

Answer: C. Class Diagram

14. Which diagram represents the dynamic behavior of a system?

- A. Use Case Diagram
- B. Activity Diagram
- C. Class Diagram
- D. State Transition Diagram

Answer: D. State Transition Diagram

15. What is the primary focus of User Interface Design?

- A. Backend development
- B. Database design
- C. Creating an intuitive user experience
- D. Software testing

Answer: C. Creating an intuitive user experience

16. Which rule emphasizes consistency in user interface design?

- A. Visibility of system status
- B. Match between system and the real world
- C. User control and freedom
- D. Consistency and standards

Answer: D. Consistency and standards

17. Which element of modern GUI is used for navigating through content that exceeds the display area?

- A. Menus
- B. Scroll bars
- C. Windows
- D. Buttons

Answer: B. Scroll bars

18. What does GUI stand for?

- A. General User Interface
- B. Graphic User Interface
- C. Graphical User Interaction
- D. Global User Integration

Answer: B. Graphic User Interface

19. Which software development approach emphasizes adaptive planning, evolutionary development, and continuous improvement?

- A. Waterfall Model
- B. Spiral Model
- C. RAD Model
- D. Agile Model

Answer: D. Agile Model

20. Which Agile process model emphasizes the importance of customer collaboration and responding to change?

- A. Extreme Programming (XP)
- B. Scrum
- C. Feature Driven Development (FDD)
- D. Crystal

Answer: B. Scrum