



SNS COLLEGE OF ENGINEERING

Kurumbapalayam (po), Coimbatore – 641 107



Accredited by NAAC-UGC with 'A' Grade

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DEPARTMENT OF INFORMATION TECHNOLOGY

23ITT203- OBJECT ORIENTED SOFTWARE ENGINEERING

UNIT 2

PUZZLE QUESTIONS

Conceptual Puzzles

1. **I describe what the system should do but not how. What am I?**
Answer: Requirements Specification
2. **I am a document that captures the needs of stakeholders. My purpose is to guide development. What am I?**
Answer: Software Requirements Specification (SRS)
3. **I bridge the gap between users and developers by defining the functional needs of a system. What am I?**
Answer: Functional Requirements
4. **I specify constraints, security, and performance expectations of the system. What type of requirement am I?**
Answer: Non-functional Requirement
5. **I use symbols like actors and use cases to represent system interactions. What diagram am I?**
Answer: Use Case Diagram

Scenario-Based Puzzles

6. **A system must authenticate users before allowing access to their accounts. Is this a functional or non-functional requirement?**

Answer: Functional Requirement

7. **A bank's online system should process 10,000 transactions per second. What type of requirement is this?**

Answer: Performance Requirement (Non-functional)

8. **A healthcare application must comply with HIPAA regulations. Which requirement does this represent?**

Answer: Regulatory Requirement (Non-functional)

9. **You are designing an ATM system. What actors might interact with it?**

Answer: Customer, Bank Database, Administrator

10. **In an e-commerce system, a user should be able to browse products, add items to the cart, and complete purchases. What technique is best to capture these interactions?**

Answer: Use Cases

Logical Thinking Puzzles

11. **Which requirement analysis technique would be most useful for identifying missing, conflicting, or ambiguous requirements?**

Answer: Requirement Validation

12. **Which model focuses on capturing the structural aspects of a system during analysis?**

Answer: Object Model (Class Diagrams)

13. **I am a requirement that might change due to market needs. What am I?**

Answer: Volatile Requirement

14. **A system must remain available 99.99% of the time. What category of requirement is this?**

Answer: Availability (Non-functional)

15. Which OOSE technique helps in breaking down complex problems into simpler components?

Answer: Decomposition (Object-Oriented Analysis - OOA)

Problem-Solving Puzzles

16. A library system requires users to log in before they can borrow books, but this requirement is missing from the SRS. What problem does this indicate?

Answer: Incomplete Requirements

17. You notice that two requirements contradict each other. What should you do?

Answer: Conflict Resolution through Stakeholder Discussion

18. Why is prototyping useful in requirement analysis?

Answer: Helps clarify ambiguous requirements and gather early feedback

19. How can stakeholders' needs be gathered effectively in OOSE?

Answer: Interviews, Surveys, Brainstorming, Prototyping, Use Cases

20. Why is traceability important in requirement specification?

Answer: Ensures that all requirements are met and changes are tracked