

Unit-IV

1. What is Information Engineering (IE)?

- a. A branch of civil engineering
- b. A methodology for designing and developing information systems
- c. A technique for data mining
- d. A software testing approach

2. Which of the following is a key aspect of Information Engineering?

- a. Focus on technology only
- b. Emphasis on data modeling and architecture
- c. Exclusively concerned with end-user training
- d. Ignoring the need for documentation

3. In Information Engineering, what does the term "re-engineering" refer to?
 - a. Building systems from scratch
 - b. Upgrading software tools
 - c. Improving and redesigning existing systems
 - d. Hardware maintenance
4. What is the role of a Data Flow Diagram (DFD) in Information Engineering?
 - a. Representing the physical implementation of a system
 - b. Focusing on the end-user interface design
 - c. Describing the flow of data within a system
 - d. Documenting the software testing procedures
5. Which modeling technique is commonly used in Information Engineering for representing data relationships?
 - a. Entity-Relationship Diagram (ERD)
 - b. Data Flow Diagram (DFD)
 - c. UML Diagrams
 - d. State Diagrams
6. What is the purpose of normalisation in the context of Information Engineering?
 - a. Increasing redundancy in the database
 - b. Simplifying data storage
 - c. Enhancing system security
 - d. Reducing data redundancy and dependency
7. Which phase of Information Engineering involves defining and documenting the system requirements?
 - a. Analysis
 - b. Design
 - c. Implementation
 - d. Maintenance
8. What does the acronym CASE stand for in the context of Information Engineering?
 - a. Computer-Aided Software Engineering
 - b. Centralised Architecture for System Enhancement
 - c. Code Analysis and Software Evaluation
 - d. Comprehensive Application for System Evolution
9. Which of the following is a benefit of using Information Engineering methodologies?
 - a. Slower development cycles
 - b. Lack of focus on data modeling
 - c. Improved system documentation
 - d. Ignoring end-user needs
10. In Information Engineering, what is the significance of "process modeling"?
 - a. Representing the flow of data within a system
 - b. Designing user interfaces
11. What is the primary goal of Structured System Analysis and Design (SSAD)?
 - a. To emphasize rapid development
 - b. To create complex algorithms
 - c. To provide a framework for understanding and solving complex problems
 - d. To focus solely on end-user needs
12. Which of the following is a key principle of structured analysis?
 - a. Focus on technology over business processes
 - b. Emphasis on user interfaces
 - c. Divide and conquer approach
 - d. Ignoring system documentation
13. In SSAD, what is the purpose of a Data Flow Diagram (DFD)?
 - a. Describing the system's architecture
 - b. Representing the physical implementation of the system
 - c. Illustrating the flow of data within the system
 - d. Focusing on end-user interfaces
14. What does the term "modularisation" mean in the context of SSAD?
 - a. Breaking down a complex system into smaller, manageable modules
 - b. Ignoring the need for modular design
 - c. Combining all system components into a single module
 - d. Emphasizing hardware components over software modules
15. Which SSAD phase involves defining the requirements of the system by studying and understanding the problem domain?
 - a. Design phase
 - b. Implementation phase
 - c. Analysis phase
 - d. Maintenance phase
16. What is the primary focus of the SSADM (Structured Systems Analysis and Design Method) methodology?
 - a. Emphasizing rapid prototyping
 - b. Providing a framework for object-oriented analysis
 - c. Supporting iterative development
 - d. Structured and sequential development approach

17. Which SSAD technique involves creating a visual representation of the system's data and the processes that transform the data?

- a. Entity-Relationship Diagram (ERD)
- b. Data Flow Diagram (DFD)
- c. Unified Modeling Language (UML)
- d. State Diagram

18. What is the purpose of a Structure Chart in SSAD?

- a. Representing data relationships
- b. Describing the flow of data within a system
- c. Illustrating the system's architecture
- d. Providing a visual representation of module hierarchy and relationships

19. Which SSAD phase involves creating detailed specifications for the system components, including algorithms and data structures?

- a. Analysis phase
- b. Design phase
- c. Implementation phase
- d. Maintenance phase

20. In SSAD, what is the significance of the term "feasibility study"?

- a. Evaluating the technical feasibility of the system
- b. Assessing the economic, technical and operational aspects of the proposed system
- c. Ignoring the need for a project timeline
- d. Focusing solely on user requirements