- 1. A step-by-step implementation instruction is called ...
 - A. Policy
 - B. Standard
 - C. Procedure
 - D. Guideline
- 2. An approved configuration of software packages that describes how and what components are assembled and implemented is called ...
 - A. Policy
 - B. Standard
 - C. Baseline
 - D. Guideline
- 3. What is the framework that provides a common description that explains how the IT systems are aligned to the business strategy, what values are delivered, and defines measure of effectiveness.
 - A. Governance framework
 - B. System architecture
 - C. Enterprise architecture
 - D. Standard
- 4. The Software Engineering Institute (SEI) Software Capability Maturity Model (SW-CMM) is based on the premise that...?
 - A. Good software development is a function of the number of expert programmers in the organization.
 - B. The maturity of an organization's software processes cannot be measured.
 - C. The quality of a software product is a direct function of the quality of its associated software development and maintenance processes.
 - D. Software development is an art that cannot be measured by conventional means.
- 5. In configuration management, a configuration item is?
 - A. The version of the operating system, which is operating on the work station, that provides information security services.

- B. A component whose state is to be recorded and against which changes are to be progressed.
- C. The network architecture used by the organization.
- D. A series of files that contain sensitive information.
- 6. The Waterfall Model of software life cycle development assumes that...?
 - A. Iteration will be required among the steps in the process.
 - **B.** Each step can be completed and finalized without any effect from the later stages that may require rework.
 - C. Each phase is identical to a completed milestone.
 - D. Software development requires reworking and repeating some of the phases.
- 7. What does the Spiral Model depict?
 - A. A spiral that incorporates various phases of software development
 - B. A spiral that models the behavior of biological neurons
 - C. The operation of expert systems
 - D. Information security checklists.
- 8. In the software life cycle, verification...?
 - A. Evaluates the product in development against real world requirements
 - B. Evaluates the product in development against similar products
 - C. Evaluates the product in development against general baselines
 - D. Evaluates the product in development against the specification
- 9. In the software life cycle, validation...?
 - A. Refers to the work product satisfying the real-world requirements and concepts
 - B. Refers to the work product satisfying derived specifications
 - C. Refers to the work product satisfying software maturity levels
 - D. Refers to the work product satisfying generally accepted principles
- 10. In IEEE 1220, what are the five stages within a typical system life cycle?
 - A. Initial, Development, Production, Support, and Disposal

- B. Concept, Design, Develop, Deploy, and Operate
- C. Initiation, Acquisition/Development, Implementation, Operations/Maintenance, and Disposition
- D. None of the above
- 11. The software maintenance phase controls consist of:
 - A. Request control, change control, and release control
 - B. Request control, configuration control, and change control
 - C. Change control, security control, and access control
 - D. Request control, release control, and access control
- 12. In a system life cycle, information security controls should be?
 - A. Designed during the product implementation phase
 - B. Implemented prior to validation
 - C. Part of the feasibility phase
 - D. Specified after the coding phase
- 13. In configuration management, what is a software library?
 - A. A set of versions of the component configuration items
 - B. A controlled area accessible to only approved users who are restricted to the use of an approved procedure
 - C. A repository of backup tapes
 - D. A collection of software build lists
- 14. What is configuration control?
 - A. Identifying and documenting the functional and physical characteristics of each configuration item
 - B. Controlling changes to the configuration items and issuing versions of configuration items from the software library.
 - C. Recording the processing of changes
 - D. Controlling the quality of the configuration management procedures.
- 15. What type of security requirement is designed to measure the effectiveness of security controls?

- A. Security requirement
- B. Functional security requirement
- C. Assurance requirement
- D. Security posture
- 16. Which of the following statements pertaining to the security kernel is incorrect?
 - A. The security kernel is made up of mechanisms that fall under the TCB and implements and enforces the reference monitor concept.
 - B. The security kernel must provide isolation for the processes carrying out the reference monitor concept and they must be tamperproof.
 - C. The security kernel must be small enough to be able to be tested and verified in a complete and comprehensive manner.
 - D. The security kernel is an access control concept, not an actual physical component.
- 17. What can best be described as an abstract machine which must mediate all access to subjects to objects?
 - A. The reference monitor
 - B. A security domain
 - C. The security kernel
 - D. The security perimeter
- 18. What is defined as the hardware, firmware and software elements of a trusted computing base that implement the reference monitor concept?
 - A. Protection rings
 - B. A security kernel
 - C. A protection domain
 - D. The reference monitor
- 19. What can be described as an imaginary line that separates the trusted components of the TCB from those elements that are not trusted?
 - A. The reference perimeter
 - B. The security perimeter
 - C. The reference monitor
 - D. The security kernel

- 20. What are the three conditions that must be met by the reference monitor?
 - A. Policy, mechanism and assurance
 - B. Isolation, layering and abstraction
 - C. Isolation, completeness and verifiability
 - D. Confidentiality, availability and integrity
- 21. What are the types of un-controlled communication paths for covert chanenel?
 - A. Timing and storage channels
 - B. Encrypted message channels
 - C. Timing channels
 - D. Storage channels
- 22. Which of the following is a communication mechanism that enables direct conversation between two applications?
 - A. ODBC
 - B. DCOM
 - C. DDE
 - D. OLE
- 23. Which of the following is NOT a common database structure?
 - A. Hierarchical
 - B. Relational
 - C. Sequential
 - D. Network
- 24. In Software Capability Maturity Model (SW-CMM), at what CMM Level where an organization has documented software engineering and development processes and are used across the organization?
 - A. CMM Level 1: Initial
 - B. CMM Level 2: Repeatable
 - C. CMM Level 3: Defined
 - D. CMM Level 4: Managed

- 25. Why do buffer overflows happen?
 - A. Because they are an easy weakness to exploit
 - B. Because buffers can only hold so much data
 - C. Because input data is not checked for appropriate length at time of input
 - D. Because of insufficient system memory
- 26. Which of the following is used in database information security to hide information?
 - A. Inheritance
 - B. Delegation
 - C. Polymorphism
 - D. Polyinstantiation
- 27. What is called the act of obtaining information of a higher sensitivity by combining information from lower levels of sensitivity?
 - A. Aggregation
 - B. Data mining
 - C. Inference
 - D. Polyinstantiation
- 28. Which of the following virus types changes some of its characteristics as it spreads?
 - A. boot sector
 - B. parasitic
 - C. stealth
 - D. polymorphic
- 29. Referential Integrity requires that for any foreign key attribute, the referenced relation must have a tuple with the same value for which of the following?
 - A. candidate key
 - B. foreign key
 - C. secondary key
 - D. primary key

- 30. The description of the database is called a schema, and the schema is defined by which of the following?
 - A. Data Encapsulation Language (DEL).
 - B. Data Connection Language (DCL).
 - C. Data Definition Language (DDL).
 - D. Data Identification Language (DIL).
- 31. What is used to hide data from unauthorized users by allowing a relation in a database to contain multiple tuples with the same primary keys with each instance distinguished by a security level?
 - A. Noise and perturbation
 - B. Cell suppression
 - C. Polyinstantiation
 - D. Data mining
- 32. A computer program in which malicious or harmful code is contained inside apparently harmless programming or data in such as way that it can get control and do damage is a:
 - A. Trojan horse
 - B. trap door
 - C. virus
 - D. worm
- 33. What is one disadvantage of content-dependent protection of information?
 - A. It requires additional password entry.
 - B. It increases processing overhead.
 - C. It exposes the system to data locking.
 - D. It limits the user's individual address space.
- 34. What type of malware is self-contained and does not need to be part of another computer program to propagate itself?
 - A. Computer virus
 - B. Trojan house
 - C. Computer worm

- D. Polymorphic virus
- 35. What type of malware that is capable of infect a file with an encrypted copy of itself, then modify itself when decoded to make almost impossible to detect by signature-based virus scanner?
 - A. Computer virus
 - B. Trojan house
 - C. Computer worm
 - D. Polymorphic virus