Multiple Choice
Identify the choice that best completes the statement or answers the question.

1. A(n) ____ is a collection of data organized in a manner that allows access, retrieval, and use of that data.
   a. database
   b. server
   c. spreadsheet
   d. webbase

2. A DBMS uses the ____ to perform validation checks.
   a. data server
   b. data mart
   c. data warehouse
   d. data dictionary

3. A report ____ allows users to design a report on the screen, retrieve data into the report design, and then display or print the report.
   a. printer
   b. matrix
   c. generator
   d. dictionary

4. In a(n) ____ recovery, the DBMS uses the log to undo any changes made to a database during a certain period.
   a. backward
   b. restorative
   c. undo
   d. model

5. Some databases are called ____ databases because they combine features of the relational and object-oriented data models.
   a. integrated
   b. dynamic
   c. object-relational
   d. continuous

6. A(n) ____ database is an application appropriate for an object-oriented database that contains text, graphics, video, and sound.
   a. hypermedia
   b. hypertext
   c. Web
   d. rasterized

7. A(n) ____ has the same intent as a cracker, but does not have the technical skills and knowledge.
   a. hacker
   b. script kiddie
   c. cyberextortionist
   d. cyberterrorist

8. ____ is a technique intruders use to make their network or Internet transmission appear legitimate to a victim computer or network.
   a. Rebuking
   b. Spoofing
   c. Transmitting
   d. Victimizing

9. A certificate ____ is an authorized person or company that issues and verifies digital certificates.
   a. authority
   b. agency
   c. office
   d. bureau

10. A(n) ____ is a device that contains surge protection circuits and one or more batteries that can provide power during a temporary or permanent loss of power.
    a. PGP
    b. DoS
    c. UPS
    d. DDos

11. ____ means in a location separate from the computer site.
    a. Offscope
    c. Offline
12. With a three-generation backup policy, the grandparent is the ____.
   a. most recent copy of the file
   b. second oldest copy of the file
   c. oldest copy of the file
   d. original file

13. Some perpetrators use a technique called ____ in which they attempt to connect to wireless networks via their notebook computers while driving a vehicle through areas they suspect have a wireless network.
   a. cyberforensics
   b. war driving
   c. war flying
   d. wire cruising

14. A(n) ____ network, the most recent network standard, conforms to the government security standards and uses more sophisticated encryption techniques than WPA.
   a. 802.11a
   b. 802.11i
   c. 802.11b
   d. 802.11k

15. Computer ____ are the moral guidelines that govern the use of computers and information systems.
   a. logistics
   b. mechanics
   c. ethics
   d. rights

16. ____ refers to unique and original works such as ideas, inventions, writings, art, processes, company and product names, and logos.
   a. PGP
   b. DoS
   c. IP
   d. TCP

17. An alternative to e-mail filtering is to purchase a(n) ____ program that attempts to remove a message like the one in the accompanying figure before it reaches a user’s inbox.
   a. email
   b. filtering
18. The 1986 _____ provides the same protection that covers mail and telephone communications to electronic communications such as voice mail.
   a. Electronic Communications Privacy Act (ECPA)
   b. Fair Credit Reporting Act
   c. Computer Fraud and Abuse Act
   d. Computer Matching and Privacy Protection Act

19. _____ include anyone for whom an information system is being built.
   a. Users
   b. Producers
   c. Managers
   d. Standards

20. _____ are sets of rules and procedures a company expects employees to accept and follow.
   a. Protocols
   b. Standards
   c. Systems
   d. Tasks

21. A systems _____ is responsible for designing and developing an information system.
   a. manager
   b. coordinator
   c. analyst
   d. developer

22. Systems analysts discuss various aspects of a development project with the _____ committee, which is a decision-making body in a company.
   a. steering
   b. JAD
   c. directors
   d. management

23. Scope _____ occurs when one activity in a project has led to another that was not originally planned; thus, the scope of the project has grown.
   a. creep
   b. change
   c. growth
   d. slippage

24. Application software developed by the user or at the user’s request is called _____ software.
   a. outsourced
   b. shareware
   c. custom
   d. both B and C

25. With a _____, the vendor selects the product(s) that meets specified requirements and then quotes the prices.
   a. request for quotation (RFQ)
   b. request for system services (RFSS)
   c. request for information (RFI)
   d. request for proposal (RFP)

26. A _____ is a less formal method that uses a standard form to request information about a product or service.
   a. request for quotation (RFQ)
   b. request for system services (RFSS)
   c. request for proposal (RFP)
   d. request for information (RFI)

27. Some VARs (value-added resellers) provide complete systems, also known as _____.
   a. final solutions
   b. turnkey solutions
   c. solid solutions
   d. ultimate solutions

28. A(n) _____ test measures the performance of hardware or software.
   a. benchmark
   b. prototype
   c. mockup
   d. implementation

29. During _____, a systems analyst carefully designs every menu, screen, and report specified in the requirements.
   a. storage design
   b. program design
b. database design                      d. input and output design

30. With _____, a user stops using the old system and begins using the new system on a certain date.
   a. phased conversion                    c. parallel conversion
   b. direct conversion                    d. pilot conversion

31. Converting existing manual and computer files so the new system can use them is known as _____.
   a. object conversion                    c. process conversion
   b. data conversion                      d. source conversion

32. Job titles in the management area of an IT department include all of the following EXCEPT _____.
   a. project leader/manager
   b. desktop publisher
   c. e-commerce director
   d. network administrator/wireless network administrator

33. Desktop or mobile application programmer/developer, which is a job title in the system development and
    programming area of an IT department, converts the system design into the appropriate computer language,
    such as _____.
   a. Visual Basic                          c. Java
   b. C++                                    d. all of the above

34. Web software developer, which is a job title in the system development and programming area of an IT
    department, analyzes, designs, implements, and supports Web applications and works with all of the
    following EXCEPT _____.
   a. Visual Basic                          c. HTML
   b. JavaScript                             d. multimedia

35. _____, which is a job title in the technical services area of an IT department, maintains an organization’s Web
    site and creates or helps users create Web pages.
   a. Web developer                        c. Web designer
   b. Webmaster/Web administrator           d. Web technician

36. Web designer, which is a job title in the technical services area of an IT department, develops graphical
    content using all of the following EXCEPT _____.
   a. Visual Basic                         c. Photoshop
   b. multimedia tools                      d. Flash

37. Job titles in the technical services area of an IT department include all of the following EXCEPT _____.
   a. database administrator                c. Web designer
   b. graphic designer/illustrator          d. e-commerce director

38. The computer service and repair field provides preventive _____, component installation, and repair services to
    customers.
   a. operation                             c. maintenance
   b. training                              d. any of the above

39. An advantage of attending a trade school is ____ than college or university programs.
   a. time; students often complete trade school programs in a shorter time
   b. attainment; students often attain a higher degree in trade school programs
   c. proximity; students always attend trade schools at a closer location
   d. all of the above
### Computer Discipline Differences

<table>
<thead>
<tr>
<th>Computer Information Systems*</th>
<th>Computer Science</th>
<th>Computer Engineering</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practical and application oriented</td>
<td>Theory oriented</td>
<td>Design oriented</td>
</tr>
<tr>
<td>Business and management oriented</td>
<td>Mathematics and science oriented</td>
<td>Mathematics and science oriented</td>
</tr>
<tr>
<td>Understand how to design and implement information systems</td>
<td>Understand the fundamental nature of hardware and software</td>
<td>Understand the fundamental nature of hardware and electronics</td>
</tr>
<tr>
<td>Certificates</td>
<td>Degrees include A.A., A.A.S., A.S., B.A., B.S., M.S., Ph.D.</td>
<td>Degrees include B.S., M.S., Ph.D.</td>
</tr>
</tbody>
</table>

* Sometimes called Information Technology or Management Information Systems

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**40.** As shown in the accompanying figure, ____ programs stress the theoretical side of programming.
- a. computer information systems
- b. computer engineering
- c. computer science
- d. none of the above

**41.** A primary way to keep up-to-date on industry trends and technologies and to develop new skills in the computer industry is through ____.
- a. professional organizations and certifications
- b. computer publications and Web sites
- c. continuing education activities
- d. all of the above

**42.** The ____ is a scientific and educational organization dedicated to advancing knowledge and proficiency of information technology.
- a. ICS
- b. CES
- c. ACM
- d. CAS

**43.** ____ is a process of verifying the technical knowledge of an individual who has demonstrated competence in a particular area.
- a. Competence analysis
- b. Articulation
- c. Certification
- d. Expert analysis

**44.** When choosing a certification, computer users should do all of the following EXCEPT ____.
- a. consider their career path over the long term
- b. rely on the advice of people in unrelated fields
- c. assess their background and experience
- d. research certifications to find those that best match their needs

**45.** If a certification exam is not passed, the test-taker must ____.
- a. pay the fee again to retake the test
- b. immediately retake the test at no cost
- c. never take the test again
- d. complete a remedial course of study

**46.** ____ Certified Associate is an application software certification that tests a user’s expertise with Flash and Dreamweaver.
- a. Microsoft
- b. Adobe
- c. Web
- d. A+

**47.** IBM Certified Solutions ____ is a hardware certification that tests knowledge of developing XML applications with Web services.
- a. Analyst
- b. Manager
- c. Developer
- d. Specialist
48. ____ is a hardware certification sponsored by the Computing Technology Industry Association that tests entry-level knowledge of personal computer setup, configuration, maintenance, and troubleshooting.
   a. SCNA  
   b. IBM eServer  
   c. A+  
   d. All of the above

49. ____ is a security certification sponsored by The Security Certified Program that tests skills with firewalls and defending against network intrusions.
   a. CWP  
   b. CCIE  
   c. SCNA  
   d. SCNP

50. IBM Certified Solutions Expert – DB2 is a certification that tests advanced skills of administration of the DB2 ____.
   a. DBMS  
   b. clients  
   c. Web server  
   d. all of the above