

DISA QUIZ-2

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This quiz contains 50 questions and covers the technological aspects of Information Technology. The objective of this quiz is to highlight the developments of IT and to provide information to the members of ICAI who are working in this field and/or preparing for forthcoming DISA examination of our Institute.

A. Find the Odd one out:

1. Ring, Mesh, Star, Bus, Tree, Optical fiber
2. Session, Transport, Network, Data link, Repeater
3. Error control, Flow control, Framing, Congestion control
4. Ethernet, Routers, Bridges, Brouter, Gateways
5. Packet-filtering router, Single homed firewall, Demilitarized zone, Cryptography

B. State True/False & write true statement if false:

6. CB radio is an example of half-duplex transmission
7. A topology is a method by which devices in a network are laid out and connected.
8. EDI stands for electronic documentation initiation.
9. URL stands for Universal router location.
10. Analog signals are represented by continuous sine waves.
11. EDP auditors are charged with the review and analysis of information system to prevent, discover and remedy security problems.
12. Data diddling involves making unauthorized changes to program code.
13. A computer virus is a hidden program that inserts itself into a computer system and forces the system to clone the virus.
14. Encryption is the process of scrambling and encoding e-mail messages, files, and other data so that they will become intelligible to anyone without proper authority to view the data.
15. A short password is more effective than long one, because it is easier for the user to remember.

C. Answer the following in one word/sentence:

16. What is Black Box Test?
17. What do you mean by Bridge in Information technology?
18. What is dedicated line?
19. Which type of communication media that is most often used to connect computers in local area network?
20. Which are the two frequently used data codes for communication systems?
21. What is voice mail system?
22. What are the main considerations to be born in mind while choosing a topology?
23. What are the three factors that can degrade the quality of signal?
24. In which of the layers of ISO/OSI model the confidentiality and data integrity services are provided in the network?
25. How digital signatures help in non-repudiation?
26. What is Gopher?
27. What do you mean by mailto?
28. What is Lynx?
29. What do you mean by Cookies?
30. Mobile user network access over an air interface in wireless IP is provided by which network?

D. Expand the abbreviations:

31. SDLC
32. DFD
33. PDL
34. SRS
35. RFP

E. Match the following:

Areas of Vulnerability	Control Types
36. Authorization of software changes	a. Physical Access control
37. System Backup procedures	b. Environmental controls
38. Password management	c. Operational control
39. Alarm system/ motion detectors	d. Management control
40. Smoke detectors and fire detectors	e. Technical control

F. Multiple Choice Questions:

41. Which of the following transmission media is most resistant to interference?
 - A. Radio frequency
 - B. Coaxial cable
 - C. Terrestrial microwave
 - D. Satellite microwave
42. Which of the following is not a desirable feature in a modem?
 - A. Dynamic equalization
 - B. Automatic dial-up capabilities
 - C. Multiple transmission speeds
 - D. Attenuation amplification
43. Which of the following error detection controls has the most impact on throughput of a communication line?
 - A. Horizontal parity check
 - B. Cyclic redundancy code
 - C. Vertical parity check
 - D. Loop check
44. Which of the following statements about star topologies is false?
 - A. A star topology is more reliable than a mesh topology
 - B. The hub is a most critical node in a star network
 - C. Servicing and maintenance of a star network is relatively easy
 - D. Failure in an outlying node in a star network

usually will not bring the network down

45. In the context of the OSI communication architecture, in which of the following layers are encryption controls unlikely to be exercised?
 - A. Presentation
 - B. Data link
 - C. Physical
 - D. Transport
46. Method of delivery used by connection-oriented TCP/IP protocols only is :
 - A. Unicast
 - B. Broadcast
 - C. Anycast
 - D. Multicast
47. Hash function is not utilized in:
 - A. Encryption of messages
 - B. Message Authentication Code (MAC)
 - C. Message digest
 - D. Digital signature
48. Data communications controls are primarily concerned with ensuring which of the following?
 - A. Absence of eavesdropping
 - B. Availability of communication lines
 - C. Maintenance of data integrity
 - D. Installation of answer-back terminal
49. Electronic junk mail is often referred to as:
 - A. WYSIWYG
 - B. Flaming
 - C. Mudding
 - D. Spam
50. To ensure availability in a heterogeneous networking environment, which of the following is most important?
 - A. Security
 - B. Routing
 - C. Interoperability
 - D. Confidentiality

ANSWERS OF DISA QUIZ-2

A. Odd one out:-

1. Optical fiber – media used in communication whereas others are different types of network topologies.
2. Repeater – Intra- Networking device while others are layers of OSI model.
3. Congestion control – Task of Network layer while others are the tasks of Data link layer.
4. Ethernet – a type of computer network whereas others are networking devices.
5. Cryptography – science of encrypting & decrypting written communication while others are the common implementation structures of firewall

B. True or False: -

6. True.
7. True.
8. False. – EDI stands for electronic data interchange.
9. False. – URL stands for Uniform resource locator.
10. True.
11. True.
12. False. – Data diddling involves unauthorized modification of input submitted for processing.
13. True.
14. True.
15. False. – Password should not be too short. Password combination should be random and use alpha and numeric characters easy to remember but hard for the perpetrator to guess.

C. Answers in one word/sentence:-

16. A type of dynamic analysis test, in which the functionality of the program is tested but not its internal logic.
17. A bridge is an intra-network device that is used either to extend or to segment networks.
18. A pre-established point-to-point communication link between computer terminals and a computer processor or between distributed a processor, which does not require dial-up access.
19. Coaxial cable.
20. ASCII & EBCDIC
21. An office automation technology that uses a PBX to digitize and store telephone messages is called Voice mail system.
22. Money, Length of cable, Future growth and cable type.
23. Attenuation, Delay distortion and Noise.

24. Application layer.
25. Since the individual doing digital signatures only knows the private key, and the message sent by him cannot be encrypted without his concurrence. Thus at a later point of time, an individual cannot repudiate the claim.
26. Gopher is an information browser just like FTP with enhancement for ease of use and flexibility for searching databases, read text files, transfer files and navigate around the collection of information.
27. Mailto represents the Internet electronic mail service so that readers can send e-mail simply by clicking the hyperlink. e.g.- <mailto:ninternet@test.com>
28. Lynx is a text only browser capable of displaying only one window at a time and runs on the provider's system. Hence large files get loaded quickly.
29. Cookie is a small piece of data sent to the user's browser from a World Wide Web server. Cookies make the Web much easier to navigate and enable a Web site to store information on a user's machine and later retrieve it.
30. Radio Access Network.

D. Expansion of abbreviations:-

31. System Development Life Cycle.
32. Data Flow Diagram.
33. Program Design Language.
34. System Requirement Specifications.
35. Request for Proposal.

E. Matching as follows:-

Areas of Vulnerability	Control Types
36. Authorization of software changes	d. Management control
37. System Backup procedures	c. Operational control
38. Password management	e. Technical control
39. Alarm system/ motion detectors	a. Physical Access control
40. Smoke detectors and fire detectors	b. Environmental controls

G. Answers of Multiple choice Questions:

Q. No.	Ans.						
41	B	42	D	43	D	44	A
45	C	46	A	47	A	48	C
49	D	50	C				