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Networking Essentials, 5e (Beasley)

Chapter 1 Introduction to Computer Networks

- 1) Which OSI layer is responsible for adding a header that includes information used in routing?
- A) Data Link
- B) Application
- C) Physical
- D) Network

Answer: D

- 2) Which OSI layer is considered the media access control layer?
- A) Data Link
- B) Transport
- C) Presentation
- D) Application
- E) None of these answers are correct.

Answer: A

- 3) Which OSI layer combines messages or segments into packets?
- A) Physical
- B) Transport
- C) Network
- D) Data Link
- E) None of these answers are correct.

Answer: C

- 4) Which OSI layer is responsible for the mechanical connection to the network?
- A) Network
- B) Transport
- C) Data Link
- D) None of these answers are correct.

Answer: D

- 5) The OSI layer responsible for data compression and encryption is which of these?
- A) Transport
- B) Presentation
- C) Application
- D) network
- E) None of these answers are correct.

Answer: B

6) The preamble on the Ethernet packet is used to provide synchronization and negotiation of a data link. True or False?

Answer: FALSE

Used only for synchronization but not for data link negotiation.

7) The acronym TCP/IP stands for Transmission Controller Protocol/Intercommunication Protocol. True or False?

Answer: FALSE

8) There are 34 bits and 4 octets in an IPv4 address. True or False?

Answer: FALSE

9) MAC is the acronym for multimedia access controller. True or False?

Answer: FALSE

- 10) What is the purpose of a wireless router?
- A) This device is used to connect only wireless devices to a broadband Internet connection.
- B) This device is used to interconnect both wireless and wired devices and establish the broadband connection to the Internet.
- C) This device is used only in intranets.
- D) This device is used in token-ring networks to manage the passing of the token.

Answer: B

- 11) What is the purpose of a range extender?
- A) It relays the wireless signals from an access point or wireless router into areas with a weak signal or no signal at all.
- B) It is used to extend the tuning range of the wireless router so both TCP and UDP data traffic can be received.
- C) It is used with fiber optics to extend the distance.
- D) None of these answers are correct.

Answer: A

- 12) What is the Wi-Fi Alliance?
- A) An organization that tests and certifies wireless equipment for compliance with the 805.3 standards
- B) An organization that tests and certifies wireless equipment for compliance with the RS-232C standards
- C) An organization that tests and certifies wireless equipment for compliance with the 802.11x standards
- D) An organization that tests and certifies wireless equipment for compliance with the 858.n standards

Answer: C

- 13) What is PAT?
- A) Port address translation; it is used to store the home network's IP address and port numbers in a NAT lookup table.
- B) Port address translation; it is used to store the home network's MAC address and port numbers in a NAT lookup table.
- C) Port address translation; it is used to store the home network's public IP address and port numbers in a NAT lookup table.
- D) Port address transfer; it is used to store the home network's MAC address and port numbers in a NAT lookup table.

Answer: A

- 14) In regards to NAT, what is overloading?
- A) Where NAT assigns the home network's IP address to a non-routable public IP address
- B) Where NAT assigns the home network's IP address to a single public IP address
- C) Where NAT assigns the home network's IP addresses to a single public IP address
- D) Where NAT assigns the home network's PAT IP address to a public NAT IP address Answer: C
- 15) Excessive amounts of broadcasts on a network are called a broadcast storm. True or False? Answer: TRUE
- 16) What frequency band is used by 802.11ac?
- A) 5GHz
- B) 2.4GHz
- C) 6GHz
- D) 2GHz

Answer: A

- 17) What is a possible transfer rate in a 802.11ac wireless network?
- A) 100Mbps
- B) 10Mbps
- C) 500Mbps
- D) 1Gbps

Answer: D

- 18) You need to troubleshoot the wireless settings for your adapter in a Windows 8 environment. What section of Control Panel do you use?
- A) Computers and Networking
- B) Network Connections
- C) Wireless Command Center
- D) Network and Sharing Center

Answer: D

- 19) What is the goal of WPS in wireless networking today?
- A) To allow a home user to connect many more devices to the wireless network
- B) To permit the configuration of multiple access points in the home network
- C) To allow printing over the wireless network
- D) To allow the configuration of security without the user inputting a long complex string of characters

Answer: D

- 20) Your Windows 8 system Control Panel has been left in the default configuration. What major grouping would you enter in order to manipulate the Network Interface Card settings?
- A) Network and Internet
- B) LAN and Computers
- C) Computers and Users
- D) Systems Answer: A