Exam

Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

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

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

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

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

5) Which OSI layer is responsible for data compression and encryption?   5) _____
   A) Presentation
   B) Network
   C) Application
   D) Transport
   E) None of these answers are correct.

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

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

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

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

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

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

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

11) What is the purpose of a range extender?   11) _____
    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 with fiber optics to extend the distance.
    C) It is used to extend the tuning range of the wireless router so both TCP ands UDP data traffic
       can be received.
    D) None of these answers are correct.

12) What is the Wi-Fi Alliance?   12) _____
    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 858.n
       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 RS-232C
       standards

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

14) In regards to NAT, what is overloading?   14) _____
    A) Where NAT assigns the home network's IP address to a single public IP address
    B) Where NAT assigns the home network's IP address to a non-routable 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

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

15) Excessive amounts of broadcasts on a network are called a broadcast storm. True or False?   15) _____

1) B
2) B
3) D
4) D
5) A
6) FALSE
7) FALSE
8) FALSE
9) FALSE
10) D
11) A
12) C
13) D
14) C
15) FALSE