Chapter 07

1. Which Ethernet standard does the IEEE 802.3 standard recommend for backbone
installations?
        a.10BASE-T
        b.100BASE-T
        c.100BASE-FX
        * d.1000BASE-LX

2. Which statements describe Gigabit Ethernet technology? (Choose two.)
        a.operates at 100 Mbps
        * b.typically used for backbone cabling
        c.requires shielded twisted-pair cabling
        * d.can be implemented over copper and fiber
        e.primarily used between workstations option

3. Which of the following are Fast Ethernet technologies? (Choose two.)
        a.100BASE-5
        b.100BASE2
        c.1000BASE-F
        * d.100BASE-FX
        * e.100BASE-TX

4. To make sure timing limitations are not violated when implementing a 10 Mbps
Ethernet network involving hubs or repeaters, a technician should adhere to which
rule?
        a.the 4-5-3 rule
        b.the 6-4-2 rule
        c.the 3-4-5 rule
        * d.the 5-4-3 rule

5. At which OSI layer do the differences between standard Ethernet, Fast Ethernet
and Gigabit Ethernet occur?
        * a.physical layer
        b.data link layer
        c.network layer
        d.transport layer

6. How does 1000BASE-T use the UTP wire pairs to accomplish transmission?
        a.two pairs are used to transmit and two pairs are used to receive
        b.one pair is used to transmit, one pair is used to receive, one pair is
used for clocking, and one pair is used for error correction
        * c.all four pairs are used in parallel by both hosts to transmit and
receive simultaneously
        d.two pairs of wires are used as in 10BASE-T and 100BASE-TX

7. What RJ-45 pins are unused when transmitting and receiving data in an Ethernet
100BASE-T Category 5 UTP cable? (Choose two.)
        a.1 and 2
        b.3 and 6
        * c.4 and 5
        * d.7 and 8

8. What is the maximum distance that 10BASE-T will transmit data before signal
attenuation affects the data delivery?
        * a.100 meters
        b.185 meters
        c.300 meters
        d.500 meters

9. Which media types can be used in an implementation of a 10BASE-T network?
(Choose three.)

* a.Category 5 UTP
* b.Category 5e UTP
* c.Category 3 UTP
d.coaxial cable
e.multi-mode fiber
f.single mode fiber

10. Which of the following Ethernet technologies are considered legacy Ethernet? (Choose three.)
* a.10BASE2
* b.10BASE5
* c.10BASE-T
d.100BASE-T
e.100BASE-FX
f.100BASE-TX