

Peer-to-Peer Protocols and Local Area Networks Week 04 Quiz Answers

Practice Assessment – Local Area Networks

Q1. Which of following features are typically true for local area networks?

- **All of the above**
- Low error rate
- Low round-trip delay
- High speed

Q2. Use HDLC and Ethernet to identify similarities between medium access control and data link control protocols. Which of following statements are true?

- **Both contains framing information that delineates the beginning and end of each frame.**
- **Both check the CRC in the received frames for errors**
- Both implement error control and flow control for reliable transmission.
- None of the above

Q3. Use IEEE 802.3 and IEEE 802.11 to discuss differences between wired and wireless LANs. Which of following statements are true about the differences?

- Error rate
- **All of the above**
- Station mobility
- Collision detection

Q4. Which of following is not a primary responsibility of the MAC sublayer in LANs?

- Protocol data unit addressing
- **Reliable connection-oriented service**
- Fragmentation and reassembly of MAC service data unit
- Channel access

Q5. In Ethernet, slot time that is at least the round-trip propagation delay, is the critical system parameter for

- **All of the above**
- upper bound on time to detect collision
- upper bound on time to acquire channel
- quantum for re-transmission scheduling

Q6. Which one of the following event is not possible in wireless LAN.

- Acknowledgement of data frames
- Collision avoidance
- Multi-mode data transfer
- **Collision detection**

Q7. In 802.11 protocol, MAC can alternate between Contention Periods (CPs) and Contention-Free Periods (CFPs)

- **True**
- False

Q8. CSMA/CD is not used in DCF because

- **a station is unable to listen to the channel for collisions while transmitting**
- physical carrier sense detects the presence of other WLAN users
- in idle state, a station is unable to listen to the channel for collisions
- None of the above

Q9. In infrastructure network supporting voice and data traffic, data traffic is transported through the CP and voice traffic through the CFP

- True
- **False**

Q10. In 802.11 protocol, which of the following statements are true for Basic Service Set (BSS)

- **Location in a Basic Service Area (BSA)**
- **Stations in BSS can communicate with each other**
- Distinct collocated BSS's cannot coexist
- Multiple BSSs interconnected by Central System (CS)