

Practice Assessment – Reliable Services and Data Link Controls

Q1. Which of the following statements are true for the best-effort service of IP?

- Packets can arrive with errors or be lost
- **Packets can arrive out-of-order**
- Packets can arrive after very long delays
- All of the above

Q2. Which of following services belong to the data link layer?

- Insert framing information into the transmitted stream to indicate the boundaries that define frames
- Provide error control to ensure reliable transmission
- Provide flow control to prevent the transmitter from overrunning the receiver buffer
- **All of the above**

Q3. Which ARQ flow control protocol is used by TCP?

- Stop-and-Wait
- **Selective Repeat**
- Go-back-N
- None of the above

Q4. By framing, frame boundaries can be determined using

- Character Counts
- Control Characters

- Flags
- **All of the above**

Q5. Which of following statements are true about framing protocols?

- PPP uses character-based framing which requires byte stuffing
- HDLC uses Flag-based framing which required bit stuffing
- **All of the above**
- None of the above

Q6. In IP network, which of the following statement is incorrect

- Packets can arrive out-of-order
- Packets can arrive with errors or be lost
- Packets can arrive after long delays
- **Packets always arrive on time**

Q7. Framing involves identifying the beginning and end of a block of information within a digital stream

- **True**
- False

Q8. Which of the following statements are true for PPP byte stuffing

- Malicious users may inflate bandwidth
- Size of frame varies unpredictably due to byte insertion
- **All of the above**
- None of the above

Q9. In PPP authentication, which of the following is true for *Password Authentication Protocol*

- After several attempts, LCP closes link
- Transmitted unencrypted, susceptible to eavesdropping
- Initiator must send ID and password
- Initiator and authenticator share a secret key

Q10. In HDLC frame format, flag is used to identify secondary station (1 or more octets)

- True
- False