Back

Practice Assessment - Peer-to-Peer Protocols

Practice Assignment • 20 min

English

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1. In networks where errors are infrequent, which approach is favored for efficiency?

2 points

- ○ Hop-by-hop approach
- ◉ End-to-end approach
- ○ Either one of the above
- ○ Neither one of the above

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English

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2. Which of the following statements is true about the stop-and-wait ARQ protocol?

2 points

- [x] Stop-and-wait is only efficient if the link bandwidth is high
- [ ] Stop-and-wait is only efficient if the link bandwidth is low
- [ ] Stop-and-wait is only efficient if the link delay-bandwidth product is large

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English

3. Consider a situation where an interactive application produces a packet to send each keystroke from the client and the server echoes each keystroke that it receives from the client. Which of following strategies for sending ACK frames in a Go-Back-N is appropriate for the situation?

2 points

- ○ send an ACK frame immediately after each frame is received
- ○ send an ACK frame after every other frame is received
- ◉ send an ACK frame when the next piggyback opportunity arises

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English

4. Consider a bulk data transfer application where a server sends a large file that is segmented in a number of full-size packets that are to be transferred to the client. Assume the channel has a low probability of error. Which of following strategies for sending ACK frames in a Go-Back-N is appropriate for the situation?

2 points

- send an ACK frame immediately after each frame is received
- send an ACK frame after every other frame is received

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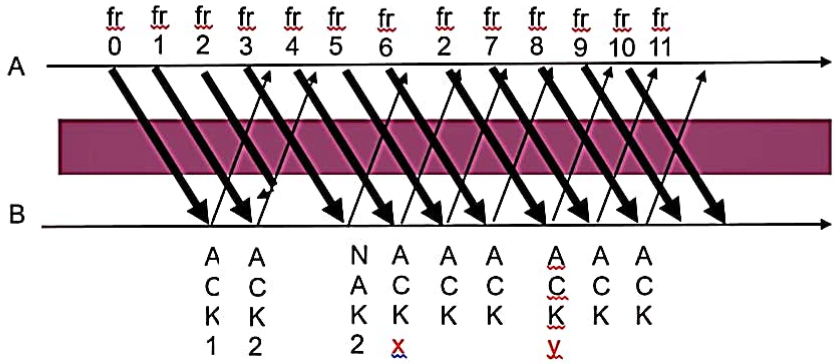
5. Consider Selective Repeat ARQ flow control protocol. In the following scenario, what should be the value of frame number *x* at receiver B?



2 points

- ○ 3
- ○ 2
- ◉ 4

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6. ARQ protocols combine error detection, retransmission and sequence numbering to provide reliability

1 point

- (●) True
- ( ) False

7. A service model specifies a level of performance that can be expected in the transfer of information.

1 point

- (●) True
- ( ) False

8. A service offered at a given layer can include which of the following feature(s)

1 point

- ○ Sequencing
- ○ Reliability
- ○ Timing
- ◉ All of the above

9. Digital communication technologies may introduce errors in communication, which of the following can be used to provide reliable communication

1 point

- ☐ UDP
- ☑ TCP
- ☑ HDLC
- ☐ DNS

- [ ] UDP
- [x] TCP
- [x] HDLC
- [ ] DNS

10. Ensuring that information is not altered during transfer is associated with

1 point

- ○ Confidentiality
- ◉ Integrity
- ○ Authentication
- ○ Availability