Graded Assessment - Peer-to-Peer Protocols

Graded Assignment • 20 min

English

Due Mar 14, 11:59 PM IST

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1. Given 3 bits for sequence numbers, what is the maximum sliding window size at the receiver in Go Back 3 ARQ?

2 points

- ○ 3
- ◉ 7
- ○ 8
- ○ None of the above

2. Given 3 bits for sequence numbers in Selective Repeat ARQ. If the sender already set the sliding window size to be 4, what is the maximum sliding window size at the receiver?

2 points

- ○ 3
- ○ 8
- ○ 7
- ◉ None of the above

← Back

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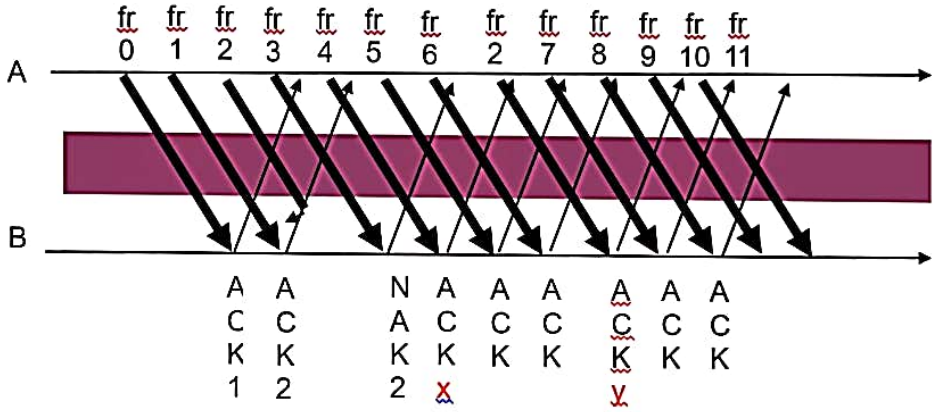
3. Consider Selective Repeat ARQ flow control protocol. In the following scenario, what should be the value of frame number *x* at receiver B?



2 points

- ○ 3
- ◉ 2

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4. In the scenario above, what should be the value of frame number *y* at receiver B?

2 points

- ○ 3
- ○ 8
- ◉ 7
- ○ None of the above

5. If the probability of error is very low in a communication link, which of the following statements is true about performance of ARQ protocol?

2 points

- ○ Stop-and-wait and Go-back-N ARQ protocols have similar performance
- ○ Stop-and-wait and Selective Repeat ARQ protocols have similar performance
- ◉ Go-back-N ARQ and Selective Repeat ARQ protocols have similar performance
- ○ None of the above

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6. In peer-to-peer protocol, the purpose of Automatic Repeat Request is

1 point

- [ ] to ensure a sequence of information packet is delivered in order
- [x] to ensure a sequence of information packet is delivered without errors or duplication despite transmission errors and losses
- [x] to ensure a sequence of information packet is delivered out-of-order
- [ ] to ensure a sequence of information packet is delivered with an ACK request

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7. Which of the basic elements of ARQ is associated with negative acknowledgement

1 point

- (●) NAKs
- ( ) ACKs
- ( ) Timeout mechanism
- ( ) Error detecting code

8. In Go-Back-N ARQ, a procedure where transmission of a new frame is begun before the completion of time of the previous frame transmission is called

1 point

- ( ) Transitioning
- (●) Pipelining
- ( ) Channeling
- ( ) None of the above

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9. In Stop-and-Wait protocol, sequence number are not required

1 point

- ○ True
- ◉ False

10. The disadvantage of Stop-and-Wait protocol

1 point

- ○ Error free communication channel does not exist
- ○ Acknowledgement may get lost
- ○ Deadlock situation may occur
- ◉ All of the above