

[Dashboard](#) / [My courses](#) / [COSC264](#) / [Week 10: Quiz \(Error Detection, Correction, and Control Problems\)](#)
/ [Quiz: Error Detection, Correction, and Control Problems \(practice copy\)](#)

Question **36**

Correct

Mark 1.33 out of 2.00

Which of the following statements are correct about TCP flow control?

Penalty regime: 33%, 66%, 100%

Select one or more:

- ☒ a. TCP specification requires the sender to continue to send one-data-byte segments to its receiver even if the receiver's buffer is full. ✓
- ☒ b. In TCP flow control, the sender maintains a variable called **receive window** (RcvWindow) which tells itself how much free buffer space is available at the receiver. ✓
- ☒ c. TCP flow control is a speed-matching service. ✓
- ☐ d. TCP flow control is the same as TCP congestion control.

Check

Your answer is correct.

You have correctly selected 3.

Correct

Marks for this submission: 2.00/2.00. Accounting for previous tries, this gives **1.33/2.00**.

Question **37**

Correct

Mark 0.67 out of 2.00

When TCP does the round-trip time sampling, it never computes a sample round-trip time (**SampleRTT**) for a segment that has been retransmitted. Why?

Penalty regime: 33%, 66%, 100%

Select one or more:

- ☒ a. If a sender retransmits a segment and receives its ACK, it does not know whether this ACK corresponds to the earlier segment or the retransmitted segment. The round-trip time estimation becomes inaccurate. ✓
- ☐ b. A retransmitted segment is more likely to be corrupted.
- ☐ c. A retransmitted segment is more likely to be delayed or lost again.
- ☐ d. Retransmission can cause network congestion.

Check

Your answer is correct.

You have correctly selected 1.

Correct

Marks for this submission: 2.00/2.00. Accounting for previous tries, this gives **0.67/2.00**.

Question **38**

Correct

Mark 0.67 out of 2.00

Which of the following statements are correct in regarding to TCP reliable data transfer service?

Select one or more:

- ☒ a. TCP usually uses cumulative acknowledgements. ✓
- ☒ b. Some segments can be retransmitted before timeout. This is called **fast retransmit**. ✓
- ☒ c. The reliable data transfer mechanism in TCP is different from both Go-back-N and Selective Repeat. ✓
- ☐ d. When there is a timeout, the sender retransmits all not-yet-acknowledged segments.

Check

Your answer is correct.

You have correctly selected 3.

Correct

Marks for this submission: 2.00/2.00. Accounting for previous tries, this gives **0.67/2.00**.

Question **39**

Correct

Mark 2.00 out of 3.00

Suppose when a TCP connection begins, its congestion window (CongWin) is initialised to 1MSS (Max Segment Size) and the threshold for CongWin is 16 MSS. Now TCP is in the **Slow Start** phase. Roughly after how many round trips, CongWin will grow to the threshold?

Penalty regime: 33%, 66%, 100%

Select one:

- ☐ a. 5
- ☐ b. 3
- ☐ c. 2
- ☒ d. 4 ✓

[Clear my choice](#)

Check

Your answer is correct.

Correct

Marks for this submission: 3.00/3.00. Accounting for previous tries, this gives **2.00/3.00**.

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