

Started on	Monday, 15 September 2025, 11:31 AM
State	Finished
Completed on	Monday, 15 September 2025, 11:35 AM
Time taken	3 mins 58 secs
Marks	4.00/10.00
Grade	40.00 out of 100.00

Question

1

Complete

Mark 1.00 out of 1.00

Which ARQ mechanism requires retransmission of only the erroneous frame?

Select one:

- ☐ a. Sliding Window
- ☒ b. Selective Repeat
- ☐ c. Go-Back-N
- ☐ d. Stop-and-Wait

Question

2

Complete

Mark 1.00 out of 1.00

Which type of multiplexing allows combining signals based on frequency ranges?

Select one:

- ☐ a. TDM
- ☐ b. CDMA
- ☒ c. FDM
- ☐ d. WDM

Question

3

Complete

Mark 1.00 out of 1.00

In WDM, increasing the number of channels primarily increases:

Select one:

- ☐ a. Error rate
- ☒ b. Bandwidth utilization
- ☐ c. Propagation delay
- ☐ d. Signal-to-noise ratio

Question

4

Complete

Mark 0.00 out of 1.00

Which of the following is true about Stop-and-Wait ARQ?

Select one:

- ☐ a. It requires sequence numbers modulo 2.
- ☐ b. It eliminates retransmissions completely.
- ☐ c. It introduces high utilization on long-delay links.
- ☒ d. It has higher throughput compared to Go-Back-N.

Question 5

Complete

Mark 1.00 out of 1.00

In a sliding window protocol with a window size of 4, how many unacknowledged frames can the sender transmit before stopping?

Select one:

- ☐ a. 3
- ☐ b. 2
- ☒ c. 4
- ☐ d. 5

Question 6

Complete

Mark 0.00 out of 1.00

Which of the following is a limitation of CSMA/CD?

Select one:

- ☐ a. It ensures no collisions occur
- ☒ b. It is inefficient at low traffic
- ☐ c. It cannot be used in wireless networks
- ☐ d. It cannot be used in half-duplex channels

Question 7

Complete

Mark 0.00 out of 1.00

Which parameter mainly influences jitter in real-time applications?

Select one:

- ☒ a. Bandwidth
- ☐ b. Transmission delay
- ☐ c. Variation in packet arrival time
- ☐ d. Window size in flow control

Question 8

Complete

Mark 0.00 out of 1.00

In Stop-and-Wait ARQ, if transmission time = 1 ms and propagation delay = 4 ms, channel utilization is approximately:

Select one:

- ☒ a. 20%
- ☐ b. 25%
- ☐ c. 50%
- ☐ d. 80%

Question 9

Complete

Mark 0.00 out of
1.00

What does bit stuffing in data transmission help prevent?

Select one:

- ☒ a. Channel noise
- ☐ b. Propagation delay
- ☐ c. Misinterpretation of control flags
- ☐ d. Collisions in Ethernet

Question 10

Complete

Mark 0.00 out of
1.00

In packet switching, which issue does store-and-forward delay directly depend on?

Select one:

- ☐ a. Propagation speed of the medium
- ☒ b. Queuing policy of the router
- ☐ c. Packet length and transmission rate
- ☐ d. Processing speed of the router