

Dashboard (<http://kmitonline.com/student/dashboard.php>) / Quiz

<b>Started on</b>	Monday, 15 September 2025, 11:31 AM
<b>State</b>	Finished
<b>Completed on</b>	Monday, 15 September 2025, 11:40 AM
<b>Time taken</b>	9 mins 23 secs
<b>Marks</b>	8.00/10.00
<b>Grade</b>	<b>80.00</b> out of 100.00

## Question

**1**

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. 4
- ☐ c. 5
- ☐ d. 2

## Question

**2**

Complete

Mark 1.00 out of 1.00

In WDM, increasing the number of channels primarily increases:

Select one:

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

## Question

**3**

Complete

Mark 1.00 out of 1.00

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

Select one:

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

## Question

4

Complete

Mark 1.00 out of 1.00

Which ARQ mechanism requires retransmission of only the erroneous frame?

Select one:

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

## Question

5

Complete

Mark 1.00 out of 1.00

Which parameter mainly influences jitter in real-time applications?

Select one:

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

## Question

6

Complete

Mark 0.00 out of 1.00

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

Select one:

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

## Question

7

Complete

Mark 1.00 out of 1.00

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

Select one:

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

## Question

8

Complete

Mark 1.00 out of 1.00

What does bit stuffing in data transmission help prevent?

Select one:

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

## Question

9

Complete

Mark 1.00 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

## Question

10

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