



Course: CCNA Semester: 2 nd term 2024/2025.	Lecturers: Assoc. Prof. Osama Elnahas, Dr. Nehal ElAzly Assistant: Eng Rania Helal, Eng. Israa Mohsen, Eng. Mariam, Eng. Hazem Hamdy
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Tutorial 6: Data link layer

Answer the following questions:

Q1. Choose the correct Answer:

1-Layer is responsible for rejection the corrupted frames.			
a) transport	b) Network access	c) data link	d) application
2-..... sublayer communicates between the networking software at the upper layers and the device hardware at the lower layers.			
a) MAC	b) LLC	c) IPV4	d) CSMA
3- Thetopology identifies the virtual connections between devices using device interfaces and IP addressing schemes			
a) port	b) logical	c) specific	d) physical
4- The..... sublayer is responsible for data encapsulation and media access control.			
a) MAC	b) LLC	c) IPV4	d) CSMA
5- topology similar to a star topology where a central site interconnects branch sites through point-to-point links.			
a) Mesh	b) Hub and spoke	c) Point-to-point	d) Bus
6- provides high availability but requires every end system to be connected to every other end system.			
a) Mesh	b) Hub and spoke	c) Point-to-point	d) Bus
7- CSMA/CD is used on legacy bus-topology forconnection			
a) wired	b) Ethernet	c) wireless	d) more than one choice
8-Uses a collision avoidance process to govern when a device can send and what happens if multiple devices send at the same time.			
a) TDMA	b) CSMA/CD	c) CSMA/CA	d) NIC
9-uses a collision detection process to govern when a device can send and what happens if multiple devices send at the same time.			





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a) TDMA	b) CSMA/CD	c) CSMA/CA	d) NIC
10-indicates source and destination nodes			
a) Error Detection	b) Control	c) Data	d) Addressing

Q2. Mention the WAN topologies.

Q3. Determine the components of data link frame with explanation.

