Duck	Graded Assignment • 3	3
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	■ Instructions	
1.	Which device is responsible for determining the best path for data packets to travel across multiple networks?	1 point
	Network switch	
	Router	
	○ Modem	
	O Bridge	
	O Bridge	
,	Which device apprates at Layer 2 of the OSI model and uses ID addresses to route naturally traffic between different naturally?	1 point
2.	Which device operates at Layer 3 of the OSI model and uses IP addresses to route network traffic between different networks?	1 point
	Network switch	
	Router	
	O Modem	
	○ Firewall	
3.	Which layer of the OSI model is responsible for addressing and routing packets?	1 point
	Network layer	
	O Data link layer	
	○ Transport layer	
	O Physical layer	
4.	Which model defines seven layers of networking protocols?	1 point
	OSI model	
	O DoD model	
	○ TCP/IP model	
	○ Ethernet model	
5.	Which network topology connects all devices in a linear sequence where each device is connected to exactly two other devices, except for the first and last devices?	1 point
	O Bus topology	
	○ Star topology	
	Ring topology	
	○ Mesh topology	
6.	Which device provides a connection between a local area network (LAN) and the internet service provider (ISP)?	1 point
	O Network switch	
	Router	
	● Modem	
	O Firewall	
7.	Which network topology requires the least amount of cabling and is easy to set up, but if the central device fails, the entire network becomes inaccessible?	1 point
	O Bus topology	
	Star topology	
	O Ping topology	

	○ Mesh topology	
8.	Which network topology consists of a single shared communication line to which all devices are connected? Bus topology Star topology Ring topology	1 point
	Mesh topology	
9.	Which device provides wireless network connectivity within a local area network (LAN)? Network switch	1 point
	 Router Modem Wireless access point 	
10.	Which layer of the OSI model provides encryption and decryption of data for secure communication? Presentation layer Session layer Application layer	1 point
11.	 Physical layer Which device can be used to create logical network segments and improve network performance by reducing network congestion? Network switch Router 	1 point
	Modem Repeater	
12.	The DoD model is commonly known as the: Four-layer model Five-layer model Six-layer model Seven-layer model	1 point
13.	Which layer of the OSI model is responsible for establishing, managing, and terminating connections between devices? Transport layer Session layer Data link layer	1 point
14.	 Presentation layer Which device is primarily used to connect multiple devices within a local area network (LAN)? Network switch Router 	1 point
	○ Modem ○ Hub	

O Network switch
Router
Modem
OBridge