## **Week 8 Summary Exercises**

Due Aug 20 at 11:59pm Points 76 Questions 24

Available Aug 13 at 12am - Aug 20 at 11:59pm 8 days Time Limit 360 Minutes Allowed Attempts 2

Take the Quiz Again

## **Attempt History**

Correct!

	Attempt	Time	Score
LATEST	Attempt 1	28 minutes	76 out of 76

Score for this attempt: **76** out of 76 Submitted Aug 14 at 12:12pm This attempt took 28 minutes.

	Question 2	/ 2 pts
	IPv6 datagrams cannot be converted to IPv4 datagrams without losing any information	n.
Correct!	True	
	False	

Question 3 2 / 2 pts

	1234:aac:a03::abcd is a valid preferred-format IPv6 address.
Correct!	True
	○ False

	Question 4	2 / 2 pts
	Select all "Taking Turns" schemes below.	
Correct!	✓ Token Ring Multiple Access	
	TDMA	
	Bus Ethernet	
	CSMA	
	FDMA	
Correct!	Polling Multiple Access	
	Star-configured Ethernet	

	Question 5 2 / 2 pts
	A network with a bus topology must terminate the endpoints, but in with a ring topology they are connected so there is no endpoint.
	Answer 1:
Correct!	bus
	Answer 2:
Correct!	ring

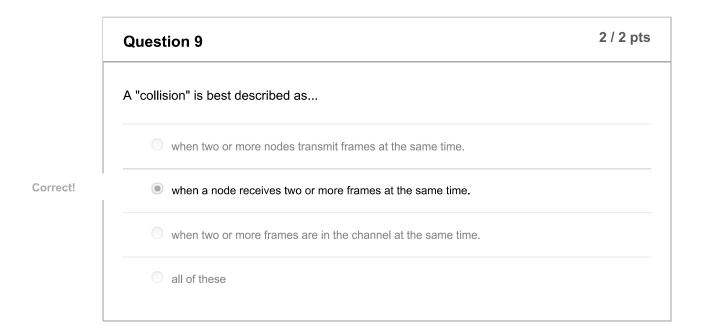
Question 6	2 / 2 pts
A multiple access scheme which uses a master node to poll each slave node, and c who has 'permission' to transmit at any given time is called	ontrol
random access protocol	
channel partitioning protocol	
reservation protocol	
"taking turns" protocol	
	A multiple access scheme which uses a master node to poll each slave node, and continuous who has 'permission' to transmit at any given time is called  random access protocol  channel partitioning protocol  reservation protocol

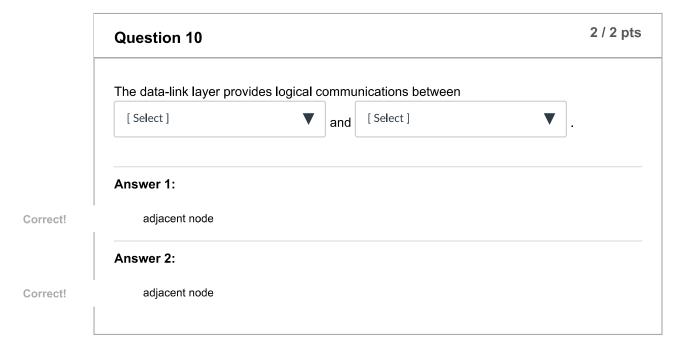
	Question 7	2 / 2 pts
	Star Ethernet uses the same multiple access control as Bus Ethernet.	
	True	
Correct!	False	

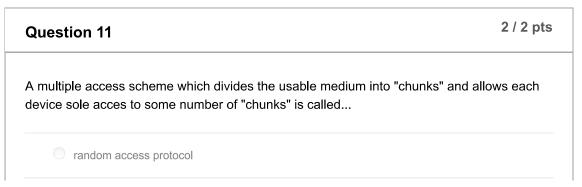
	Question 8	2 / 2 pts
	Which are functions of the Ethernet preamble? (Check all that apply)	
	Stop signal	
	Address switching.	
Correct!	✓ Circuit wake-up	
	Error detection/correction	
Correct!	Start signal	

Correct!

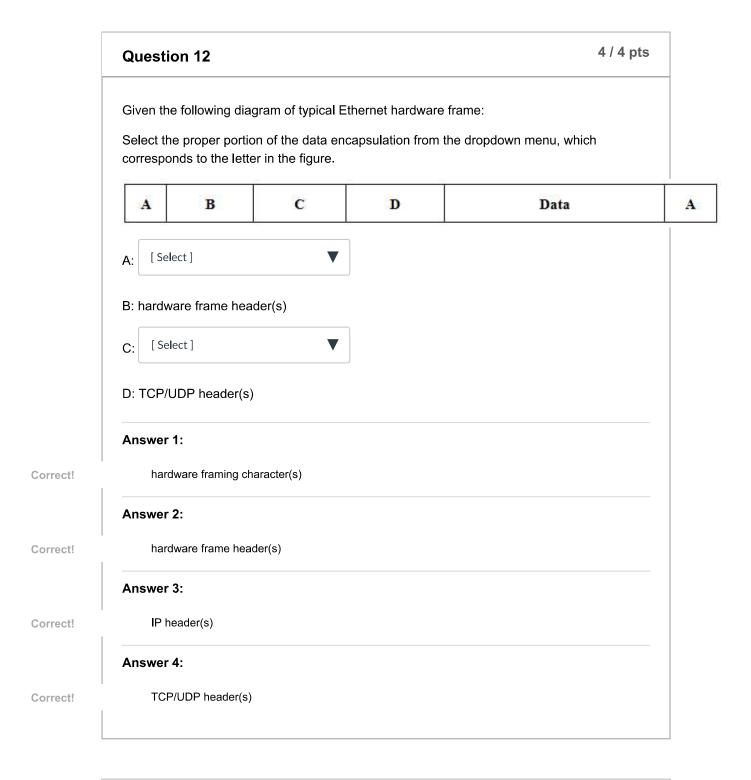
Clock synchronization







4/2017	Week 6 Sulfilliary Exercises. INTIO TO COMP OTER INCIDENTIAL (CS_572_400_02017)
	"taking turns" protocol
	<ul> <li>collision avoidance protocol</li> </ul>
Correct!	channel partitioning protocol
L	



**Question 13** 

4 / 4 pts

	For a 10Mbps link, 1000 bit times is 0.1ms.
Correct!	True
	False

## Question 14 Ethernet uses a RTS/CTS contention-free period. True False

Question 15 6 / 6 pts

Given the following "byte stuffing" scheme:

Character in data	Characters sent
soh	esc x
eot	esc y
esc	esc z

Character	Hex code
soh	01h
eot	04h
esc	1Bh
'x'	78h
'у'	79h
'z'	7Ah

Note: soh and eot are the framing characters.

DATA: 78h 04h 1Bh 1Bh

If byte stuffing is used to transmit Data, what is the byte sequence of the frame (including framing characters)? Format answer with capital hex values, with each value followed by an 'h' and separated by spaces, for example: 0Ah 12h

Correct!

01h 78h 1Bh 79h 1Bh 7Ah 1Bh 7Ah 04h

orrect Answers

01h 78h 1Bh 79h 1Bh 7Ah 1Bh 7Ah 04h

	Question 16	4 / 4 pts
	A device which moves between networks is a Mobile device.	
	Answer 1:	
Correct!	Mobile	

	Question 17 4 / 4 pts
	When a mobile unit moves from a home or foreign agent to another (foreign) agent, the new agent must assign (Check all that apply)
	a new name (alias) to the mobile unit's home network
Correct!	a new "care-of" address to the mobile unit
	a new home address to the correspondent

	Question 18	4 pts
	In one type of wireless network, hosts communicate directly with other hosts that are w range. This communication model forms a "grid" called a(n)	rithin
	none of these	
Correct!	ad-hoc network	
	access point network	
	basic service set network	
	infrastructure network	

	Question 19	4 / 4 pts
	The default multiple access scheme of 802.11g is RTS/CTS.	
	True	
Correct!	False	

	Question 20	4 / 4 pts
	Which of the following are used in a wireless network such as 802.11n?	
Correct!	Collision Avoidance	
Correct!	Carrier Sense Multiple Access	
Correct!	Reservation system with Request to Send (RTS) and Clear to Send (CTS)	
Correct!	Exponential back-off/retry for collision resolution	
	Collision Detection	

	Question 21 4 / 4 pts	
	When an organization establishes a network security policy, which of the following should be considered?	
Correct!	the value of the information that is stored or transmitted by the site	
Correct!	the cost of damage control after various types of security breaches	
Correct!	the cost of installing "secure" systems	

## S represents a source host and D represents a destination host. Which of the following is the most typical use of public key encryption, when S sends an encrypted message to D? Correct! S encrypts a message using D's public key, and D decrypts the message using D's private key. S encrypts a message using S's private key, and D decrypts the message using D's public key. S encrypts a message using S's public key, and D decrypts the message using D's private key. S encrypts a message using S's public key, and D decrypts the message using D's private key.

Question 23 4 / 4 pts
S represents a <u>source host</u> and D represents a <u>destination host</u> . Which of the following is the most typical use of public key encryption, when S sends an authenticated (digitally signed) message to D?
S encrypts a signature using S's public key, and D decrypts the signature using S's private key.
S encrypts a signature using <i>D</i> 's private key, and <i>D</i> decrypts the signature using <i>D</i> 's public key.
S encrypts a signature using S's private key, and D decrypts the signature using S's public key.
S encrypts a signature using D's public key, and D decrypts the signature using D's private key.

	Question 24 4 pts
	When using an RSA algorithm to construct private and public keys for a public key encryption system, choose prime numbers $p$ and $q$ , and then calculate $n = pq$ , $z = (p-1)(q-1)$ . Then choose $e$ and $d$ to create the public key and the private key . Suppose that $p = 5$ , and $q = 11$ . Which of the following values will work for $d$ and $e$ ? Check all that apply.
	e = 29, d = 63
Correct!	e = 7, d = 63
	e = 5, d = 29

Quiz Score: 76 out of 76