Week 9 Summary Exercises

Due Dec 1 at 11:59pm **Points** 107 **Questions** 38

Available Nov 24 at 12am - Dec 1 at 11:59pm 8 days Time Limit 360 Minutes

Allowed Attempts 2

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	144 minutes	107 out of 107

Score for this attempt: 107 out of 107

Submitted Dec 1 at 11:15pm This attempt took 144 minutes.

	Question 1	2 / 2 pts
Correct!	The "traceroute" application (on Windows) receives ICMP messages.	
	True	
	○ False	

	Question 2	2 / 2 pts
Correct!	NAPT devices translate IP address <i>and</i> port numbers.	
	True	
	False	

	Question 3	2 / 2 pts
	The transport-layer header is encapsulated in the first fragmented IP datagram.	
Correct!	True	
	False	

Question 4 It is the responsibility of a routing algorithm to determine the cost of an output link. True False

	Question 5	2 / 2 pts
	In a prefix-matching network, a routing table stores (Check all that ap	oply)
Correct!	✓ IP Prefixes	
	Path cost information	
	Link state information	
	Complete path information	
Correct!	✓ Next-Hop link information	

	Question 6	2 / 2 pts
	It is the responsibility of a routing algorithm to correlate MAC address addresses.	ses with IP
	True	
Correct!	False	
	Question 7	2 / 2 pts
	Network address translation has ameliorated the IP address shortage	e problem.
Correct!	True	
	False	
	Question 8	2 / 2 pts
	The path MTU is the largest MTU on a path from sender to receiver.	
	True	
Correct!	False	
		0.10

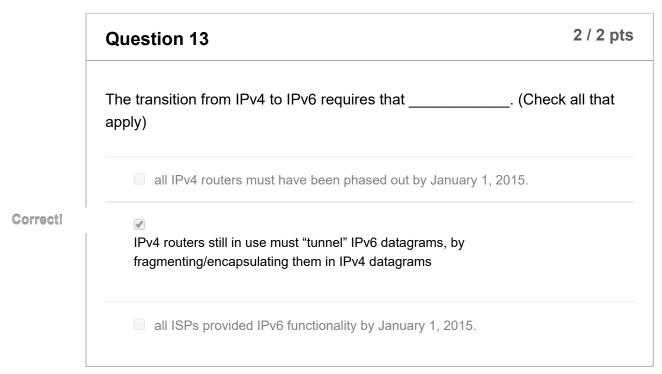
Question 9

2 / 2 pts

The IPv6 header does not have a checksum.

2/1/2019	Week 9 Summary Exercises: INTRO TO COMPUTER NETWO	ORKS (CS_372_400_F2019)
Correct!	True	
	False	
	Question 10	2 / 2 pts
	The IPv6 address size is 128 bits.	
Correct!	True	
	False	
	Select all features explicitly available in IPv6 which were a explicitly in IPv4.	already available
Correct!	Source/Destination Addressing	
	Payload Length	
Correct!	✓ Traffic Type	
	Flow Labeling	
Correct!	✓ Hop Limit	
	Extension Headers	
	128-bit Addresses	
Correct!	✓ Version	

	Question 12	2 / 2 pts
	The IPv6 address size is 120 bits.	
	True	
Correct!	False	



	Question 14	2 / 2 pts
	In IPv6, datagram fragmentation is handled at the network edge .	
	Answer 1:	
Correct!	handled at the network edge	

Question 15 3 / 3 pts

Convert the following IPv4 address to its corresponding IPv6-mapped address, with proper formatting.

114.18.222.10

Correct!

::ffff:7212:DE0A

orrect Answers

::ffff:114.18.222.10

::ffff:7212:de0a

Question 16

3 / 3 pts

Convert the following IPv4 address to its corresponding IPv6-mapped address, with proper formatting.

192.123.33.1

Correct!

::ffff:C07B:2101

correct Answers

::ffff:c07b:2101

::ffff:192.123.33.1

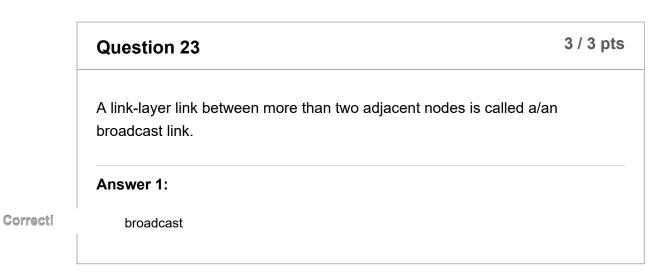
Question 17 1234:aac:a03::abcd is a valid preferred-format IPv6 address. True False

2/1/2019	Week 9 Summary Exercises: INTRO TO COMPUTER I	NETWORKS (CS_372_400_F2019)
	Question 18	3 / 3 pts
	A switch is a network-layer device.	
	True	
Correct!	False	
	Question 19	3 / 3 pts
	The link-layer device at the center of an ethernet star	is a
	node	
Correct!	switch	
	router	
	star hub	
	Question 20	3 / 3 pts

	Question 20	3 / 3 pts
	A MAC address is permanent and unique.	
	True	
Correct!	False	

3 / 3 pts **Question 21**

	A link-layer link between only two adjacent nodes is called a/an point to point link.	
	Answer 1:	
Correct!	point to point	



Question 24 Star Ethernet uses the same multiple access control as Bus Ethernet. True

Correct!

False

-	Question 25	3 / 3 pts
	A multiple access scheme which listens to the channel to make sure it is empty, prior to transmitting, is called	S
Correct!	 collision detection protocol 	
	"taking turns" protocol	
	carrier sense protocol	
	 random access protocol 	

Question 26	3 pts
In a CSMA/CD system, when a collision is detected,	
•	
the sender will cut off transmission and wait some time before retransmitting.	
the sender will give an error message to the upper-level protocol	
the sender will immediately retransmit the frame from the beginning.	
the sender will send a channel reservation message.	
	In a CSMA/CD system, when a collision is detected, the sender will cut off transmission and wait some time before retransmitting. the sender will give an error message to the upper-level protocol the sender will immediately retransmit the frame from the beginning.

Question 27	3 / 3 pts

	A multiple access scheme which divides the usable medium into "chunks" and allows each device sole acces to some number of "chunks" is called
	○ "taking turns" protocol
	random access protocol
	collision avoidance protocol
Correct!	channel partitioning protocol

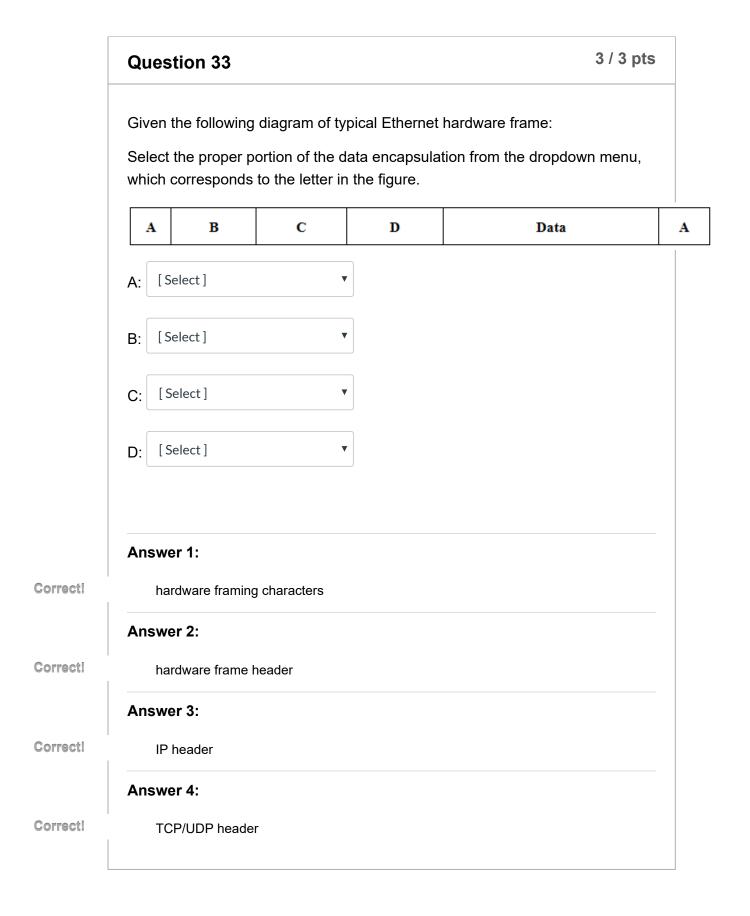
	Question 28	3 / 3 pts
	Select all Random Access schemes below.	
	Star-configured Ethernet	
	☐ Token Ring Multiple Access	
Correct!	✓ CSMA	
	WDMA	
	FDMA	
	TDMA	
Correct!	✓ ALOHA	

Question 29 3 / 3 pts

Given the following received byte on an even-parity machine, there is definitely at least one error.

error detection and correction via parity checks

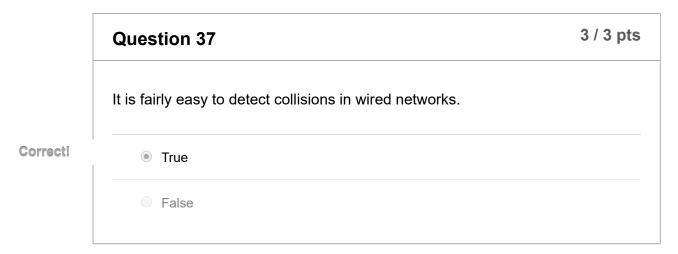
no error detection or correction

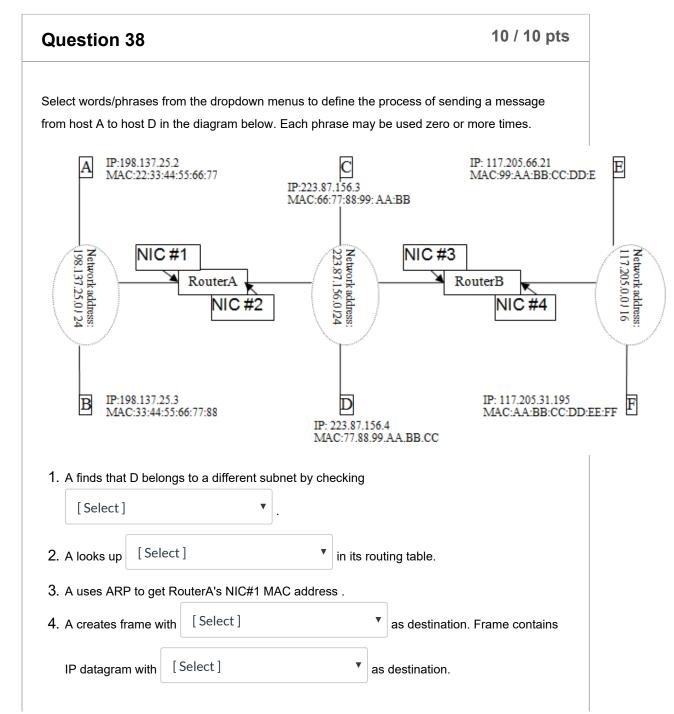


Question 34 3 / 3 pts
A protocol designed to control access to a medium is most commonly called a
 multiple access protocol
onone of these
link access protocol
media control protocol

	Question 35	3 / 3 pts
	In Random Access multiple access schemes, no two nodes will ever at the same time.	transmit
	True	
Correct!	False	

	Question 36	3 / 3 pts
	To retrieve an adjacent node's MAC address, is used.	
	UDP	
	OHCP	
Correct!	• ARP	





	5. A's NIC sends frame and RouterA's NIC receives it.6. RouterA removes IP datagram from frame, learns that its destination is	
	[Select] •	
	7. RouterA uses ARP to get Select .	
	8. RouterA creates frame with Select] as destination. Frame	
	contains IP datagram with Select] as destination.	
	9. RouterA's NIC sends frame and D's NIC receives it.	
	Answer 1:	
Correct!	D's IP address	
	Answer 2:	
Correct!	RouterA's NIC#1 IP address	
	Answer 3:	
Correct!	RouterA's NIC#1 MAC address	
	Answer 4:	
Correct!	RouterA's NIC#1 MAC address	
	Answer 5:	
Correct!	D's IP address	
	Answer 6:	
Correct!	D's IP address	
	Answer 7:	
Correct!	D's MAC address	
	Answer 8:	
Correct!	D's MAC address	
	Answer 9:	
Correct!	D's IP address	

Quiz Score: 107 out of 107