Week 10 Summary Exercises

Due Dec 8 at 11:59pm **Points** 76 **Questions** 24

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

Allowed Attempts 2

Attempt History

	Attempt	Time	Score
KEPT	Attempt 2	117 minutes	76 out of 76
LATEST	Attempt 2	117 minutes	76 out of 76
	Attempt 1	132 minutes	75.33 out of 76

Score for this attempt: 76 out of 76

Submitted Dec 8 at 11:50pm This attempt took 117 minutes.

	2 / 2 pts
ress size is 120 bits.	

	Question 2	2 / 2 pts
	The IPv6 header does not have a checksum.	
Correct!	True	
	False	

	Question 3	2 / 2 pts
	1234::a03:abcd is a valid preferred-format IPv6 address.	
Correct!	True	
	False	

Question 4 2 / 2 pts

For an machine using 2-dimensional even parity for error detection/correction, and the following received bytes, where is the error? If there is no error, select "No Error" for both boxes. Bits are numbered left-to-right and top-down, indexed 1 => 7 then Parity.



Byte #	Code	Parity
1	1000 011	1
2	1001 110	0
3	1001 101	0
4	1100 011	0
5	1101 000	1
6	1100 110	0
7	1010 100	1
Parity	1111 001	1

Answer 1:

Question 5

A MAC address was originally designed to be permanent and unique.

True

False

Question 6
2 / 2 pts

Which are functions of the Ethernet preamble? (Check all that apply)

Error detection/correction

Address switching.

Stop signal

Correct!
Clock synchronization
Correct!
Circuit wake-up

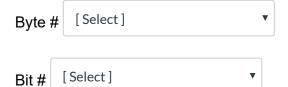
Question 7 2 / 2 pts

2/0/2013	week to duffillary Exercises. INTHO TO GOIN OTER NETWORKS (GG_572_400_1 2013)		
	Star Ethernet uses the same multiple access control as Bus Ethernet.		
	True		
Correct!	False		

	Question 8	2 / 2 pts
	There are reserved MAC addresses unusable for devices.	
Correct!	True	
	False	

Question 9 2 / 2 pts

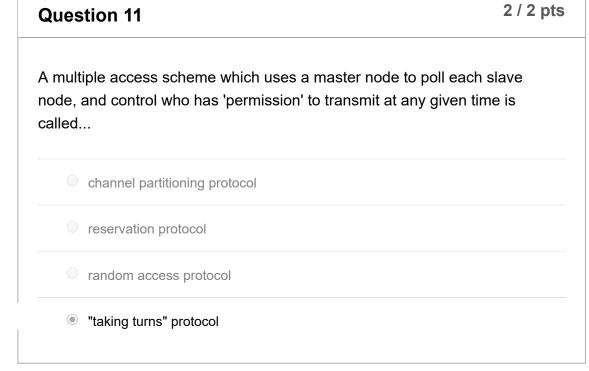
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2/8/2019		week 10 Summary Exerc	ises: INTRO TO COMPUT	ER NETWORKS (CS_372_400_F2019)	
	7	1010 100	1		
	Parity	1111 001	1		
	Answer 1:				
Correct!	2				
	Answer 2:				
Correct!	4				

Question 10 When sending a message to all devices on a link, you would send it to the broadcast MAC address: 00-00-00-00-00 True False



Correct!

	Question 12	4 / 4 pts
	For a 10Mbps link, 100 bit times is 0.1ms.	
	True	
Correct!	False	
	Question 13	4 / 4 pts
	Ethernet uses a RTS/CTS contention-free period.	
	True	
Correct!	False	
	Question 14	4 / 4 pts
	For a 10Mbps link, 1000 bit times is 0.1ms.	
Correct!	True	
	False	
L		
	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 79h 01h 04h

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

_						-
m	-	100 100	-	0	ь	
6	w	ш	ı	اضاا	ĸ.	ä

01h 78h 79h 1Bh 78h 1Bh 79h 04h

orrect Answers

Correct!

01h 78h 79h 1Bh 78h 1Bh 79h 04h

Question 16	4 / 4 pts
In one type of wireless network, hosts communicate through a ce station" access point, which is typically connected to a wired netv communication model is called a(n)	
ad-hoc network	
access point network	
onone of these	
basic service set network	
infrastructure network	

A device which moves between networks is a Mobile device. Answer 1: Mobile

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 "care-of" address to the mobile unit a new name (alias) to the mobile unit's home network a new home address to the correspondent

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

Question 20 4 / 4 pts

4 / 4 pts

In direct routing, after the initial contact with the home network, the correspondent sends packets to

Correct!

- The care-of address
- The home agent
- The permanent address

Question 21

When an organization establishes a network security policy, which of the following should be considered? Check all that apply.

Correct!

The value of the information that is stored or transmitted by the site.

Correct!

The cost of installing "secure" systems.

Correct!

The cost of damage control after various types of security breaches.

Question 22 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 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 D's public key, and D decrypts the message using S'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 private key, and D decrypts the message using D's public key.

Question 23 4 / 4 pts

An organization typically implements its firewall security by using

- Address Resolution Protocols
- the Internet Control Messaging Protocol
- none of these
- Network Address Translation

Correct!

packet filtering

Question 24 4 / 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