Week 2 Summary Exercises

Due Oct 13 at 11:59pm

Points 82

Questions 20

Available Oct 6 at 12am - Oct 13 at 11:59pm 8 days

Time Limit 360 Minutes

Allowed Attempts 2

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	254 minutes	82 out of 82

Score for this attempt: 82 out of 82

Submitted Oct 12 at 5:40pm

This attempt took 254 minutes.

Question 1

2 / 2 pts

Convert the following units. Your answer should be a whole number with no text in the answer field:

Correct!

22,740

orrect Answer

22,740

Question 2

2 / 2 pts

Convert the following units. Your answer should be a whole number with no text in the answer field:

50 B = bits

orrect Answer

10/12/2019

Correct!

400

400

Question 3 5 / 5 pts

Suppose there are 60 packets entering a queue at the same time. Each packet is of size 4 MiB. The link transmission rate is 2.2 Gbps. What is the queueing delay of packet number 43 (in milliseconds, rounded to one decimal place, e.g. 0.01234 seconds would be entered as "12.3")

Correct!

640.6

orrect Answer

640.6 margin of error +/- 0.1

Question 4 5 / 5 pts

How long does it take to send a 16 MiB file from Host A to Host B over a circuit-switched network, assuming:

- Total link transmission rate = 28.5 Gbps.
- Network is TDM, with 3 permitted users, each with an equal time slot size.
- A link connection requires a setup time of 51.5 ms.

Your answer should be in **miliseconds** (ms) with one decimal place, and without the unit (e.g. "140.6" without the quotes)

Correct!

65.6

orrect Answer

65.6 margin of error +/- 0.2

Question 5 8 / 8 pts

Given a link with a maximum transmission rate of 82.6 Mbps. Only two computers, X and Y, wish to transmit starting at time t = 0 seconds. Computer X sends *fileX* (17 MiB) and computer Y sends *fileY* (184 KiB), both starting at time t = 0.

- Statistical multiplexing is used, with details as follows
 - Packet Payload Size = 1000 Bytes
 - Packet Header Size = 24 Bytes (overhead)
- · Ignore Processing and Queueing delays
- Assume partial packets (packets consisting of less than 1000 Bytes of data) are padded so that they are the same size as full packets.
- Assume continuous alternating-packet transmission.
- Computer X gets the transmission medium first.

At what time (t = ?) would FileX finish transmitting?

Give answer in seconds, without units, and round to two decimal places (e.g. for an answer of 12.4567 seconds you would enter "12.46" without the quotes)

Correct!

1.79

orrect Answer

1.79 margin of error +/- 0.02

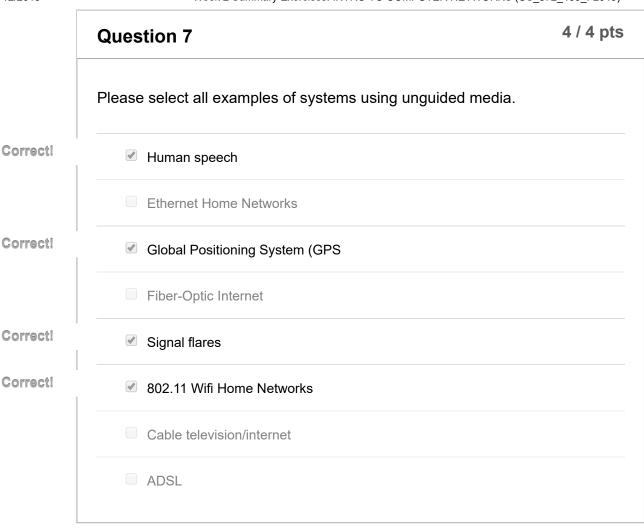
Question 6 4 / 4 pts

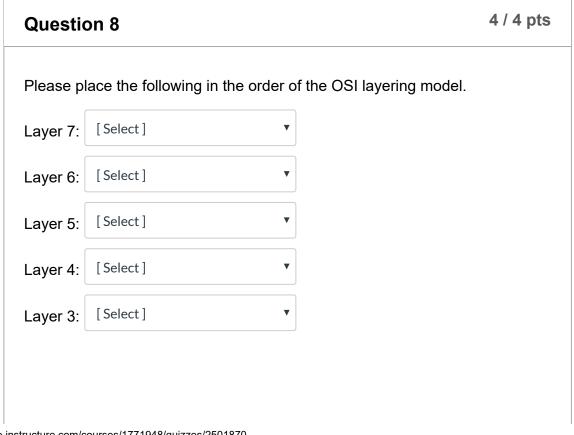
In the Internet protocol stack, the Application Layer is responsible for assembling user data to be sent.

Answer 1:

Correct!

Application Layer





10/12/2019	Week 2 Summary Exercises: INTRO TO COMPUTER NETWORKS (CS_372_400_F2019)
	Layer 2: [Select] ▼
	Layer 1: [Select] ▼
	Answer 1:
Correct!	Application Layer
	Answer 2:
Correct!	Presentation Layer
	Answer 3:
Correct!	Session Layer
	Answer 4:
Correct!	Transport Layer
	Answer 5:
Correct!	Network Layer
	Answer 6:
Correct!	Link Layer
	Answer 7:
Correct!	Physical Layer

Question 9	4 / 4 pts
When a packet is passed down to the next lower layer, it isinto the lower-layer packet.	
interoperated	
morphed	

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encapsulated

multiplexed

Question 10

4 / 4 pts

In the Internet protocol stack, if a data transfer is connection-oriented, it is implemented at the Transport Layer .

Answer 1:

Correct!

Transport Layer

Question 11

4 / 4 pts

If I were to send information into the internet with your IP address listed as the sender IP, I would be _____

sniffing your packets

Correct!

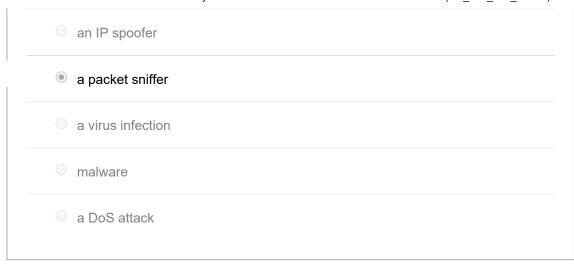
- spoofing my IP address
- infecting your computer with a virus
- executing a DoS attack

Question 12

4 / 4 pts

A third party intercepting a packet and downloading its information before it is sent onward toward its destination is called

Correct!



	Question 13	4 / 4 pts
	Merging multiple communication streams into the same media is ca?	alled
	morphing	
	interoperability	
Correct!	multiplexing	
	encapsulation	

	Question 14	4 / 4 pts
	A pair of sockets is called a connection	
	Answer 1:	
Correct!	connection	

Question 15 In a hybrid client-server/P2P architecture, one host is always on, and other hosts may connect and be handed off amongst themselves by this first host. Answer 1:

Correct!

hybrid client-server/P2P

	Question 16	4 / 4 pts
	In a client-server architecture, one host is always connect and be continually serviced by this first h	•
	Answer 1:	
Correct!	client-server	

Question 17

What transport-layer services are provided by the base TCP protocol?
(Check all that apply)

Message security

Jitter minimization

Correct! Connection-oriented service

Minimum bandwidth

Flow control

10/12/2019	Week 2 Summary Exercises: INTRO TO COMPUTER NETWORKS (CS_372_400_F2019)		
	Gateway Router IP		
	Local Port Number		
Correct!	Remote Host IP		
	Local Host IP		

Quiz Score: 82 out of 82