### **Week 4 Summary Exercises**

**Due** Oct 27 at 11:59pm

Points 48

**Questions** 23

Available Oct 20 at 12am - Oct 27 at 11:59pm 8 days

Time Limit 360 Minutes

**Allowed Attempts** 2

Take the Quiz Again

### **Attempt History**

	Attempt	Time	Score
LATEST	Attempt 1	125 minutes	48 out of 48

Score for this attempt: 48 out of 48

Submitted Oct 27 at 1:38pm

This attempt took 125 minutes.

Question 1	2 / 2 pts
QUESTION I	

The reserved port for SMTP is port 25.

Answer 1:

Correct!

25

Question 2 2 / 2 pts

The SMTP e-mail protocol is called a Push protocol.

Answer 1:

Correct!

Push

	Question 3	2 / 2 pts
	A client-side piece of data which is used to keep track of transacti between a client and server is called a cookie.	ons
Correct!	True	
	<ul><li>False</li></ul>	
	Question 4	2 / 2 pts
	The reserved port for HTTP is port 80.	
	Answer 1:	
Correct!	80	

	Question 5	2 / 2 pts
	The reserved port for FTP data transfer is port 20 .	
	Answer 1:	
Correct!	20	

Question 6 1 / 1 pts

Compute the sum with carry-wraparound (sometimes called the one's complement sum) of the following two numbers. Give answer in 8-bit binary,

zero-padded to 8 bits if necessary, with no spaces (e.g. 00101000). Please note this is different than the checksum calculation.

NOTE: Canvas will remove any leading zeros from your answer. This will not cause your answer to be marked as incorrect.

10010110 10011100

Correct!

110,011

orrect Answers

110,011 (with margin: 0)

### Question 7 1 / 1 pts

Compute the sum with carry-wraparound (sometimes called the one's complement sum) of the following two numbers. Give answer in 8-bit binary, zero-padded to 8 bits if necessary, with no spaces (e.g. 00101000). Please note this is different than the checksum calculation.

NOTE: Canvas will remove any leading zeros from your answer. This will not cause your answer to be marked as incorrect.

10000011 10000000

Correct!

100

orrect Answers

100 (with margin: 0)

### Question 8 The TCP protocol provides error detection and correction. True

Correct!

Correct!

Correct!

False

### Question 9 2 / 2 pts The one's complement of 01101001 is 10010110 Answer 1: 10010110

# Question 10 If I want to be sure I don't overwhelm the receive host with too much information, I would use the TCP protocol. Answer 1: TCP

Question 11

The network layer manages communications from host to host .

Answer 1:

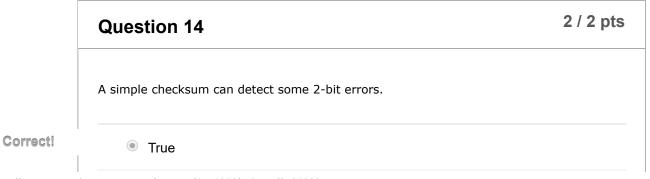
Correct! host

Answer 2:

Correct! host

	Question 12	2 / 2 pts
	The UDP protocol provides unreliable, connectionless service.	
Correct!	True	
	<ul><li>False</li></ul>	

	Question 13	2 / 2 pts
	The TCP protocol uses a [Select]	▼ -bit, 1 's
	complement of the [Select] 's compute the checksum.	omplement sum to
	Answer 1:	
Correct!	16 Answer 2:	
Correct!	1 Answer 3:	
Correct!	1	



Correct!

False

### Question 15 If I were going to implement a lossy VoIP connection, I would use the UDP protocol. Answer 1: UDP

Question 16

The transport layer manages communications from process to process.

Answer 1:

process

Answer 2:

process

	Question 17	2 / 2 pts
	The TCP protocol provides reliable, connection-oriented service.	
Correct!	True	
	False	

## Question 18 The TCP protocol provides reliable, connectionless service. True False

# Suppose that a client application sends a request to a server application at port 80 on a remote server. The server responds to the client's address at port 80; the client port is always the same as the server port. a port number calculated by the server and assigned to the client; this calculation is based on the client address, and is sent to the client along with the server's response. Correct! a port number assigned by the client's operating system; this number is not used directly by the client application, but is sent to the server along with the original request.

Question 20 2 / 2 pts

The UDP protocol provides reliable, connectionless service.

Correct!

	•	· /
O True		
False		
		True

Question 22 4 / 4 pts

Server X is running XBox Live services on port #3072. Client A is running an application that uses port #1796 to request an XBox Live TCP connection to Server X. Client B is running an application that uses port #2076 to request an XBox Live TCP connection to Server X.

### IP addresses:

Server X: 201.164.10.123Client A: 128.193.11.113Client B: 128.193.45.227

Client B starts a second application (running at the same time as the first application) that uses the next incremental port number to request an XBox Live TCP connection to Server X. The connection created for Client B is identified by the sockets at the endpoints as follows:

	IP Address	Port Number
On Client B	[Select] •	[Select] •
On Server	128.193.45.227	[Select] •

12112013	Week 4 duffillary Excluses. INTITO TO COMP OTEN METWORKS (GG_072_400_12013)
	X
	Answer 1:
Correct!	201.164.10.123
	Answer 2:
Correct!	3072
	Answer 3:
Correct!	128.193.45.227
	Answer 4:
Correct!	2077

Question 23 4 / 4 pts

Server X is running Diablo II services on port #4000. Client A is running an application that uses port #450 to request an Diablo II TCP connection to Server X. Client B is running an application that uses port #455 to request an Diablo II TCP connection to Server X.

### IP addresses:

Server X: 152.111.20.36Client A: 113.13.131.10Client B: 114.192.111.23

Client A starts a second application (running at the same time as the first application) that uses the next incremental port number to request an Diablo II TCP connection to Server X. The connection created for Client A is identified by the sockets at the endpoints as follows:

	IP Address	Port Number
On Client A	[Select]	4000
On Server X	[Select]	451

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	Answer 1:
Correct!	152.111.20.36
	Answer 2:
Correct!	4000
	Answer 3:
Correct!	113.13.131.10
	Answer 4:
Correct!	451

Quiz Score: 48 out of 48