Dashboard / My courses / COMPUTER NETWORKS-Lecture-1202 - ENCS3320 - Meta /	<u>General</u> /	<u>Quiz1Repeat</u>
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```
        Started on
        Tuesday, 13 April 2021, 4:49 PM

        State
        Finished

        Completed on
        Tuesday, 13 April 2021, 5:24 PM

        Time taken
        35 mins

        Marks
        11.75/15.00

        Grade
        7.83 out of 10.00 (78%)
```

Complete

Mark 1.00 out of 1.00

ISO/OSI reference model has more layers than Internet protocol stack

🔾 a. False

🖲 b. True

The correct answer is: True

Question 2

Complete Mark 1.00 out of 1.00

Consider two hosts, A and B, connected by a single link of rate 16 Mbps. Suppose that the two hosts are separated by 500 km, and suppose the propagation speed along the link is 200000 km/sec. Host A is to send a packet of size 1500 Bytes to Host B. Find the transmission delay.

○ a. 0.0005 seconds

🔘 b. None

- c. 0.012 seconds
- d. 0.00075
- e. 0.0015 seconds
- f. 0.2 seconds

The correct answer is: 0.00075

Question 3

Complete

Mark 1.00 out of 1.00

Suppose users share a 3 Mbps link. Also suppose each user transmits continuously at 1 Mbps when transmitting, but each user transmits only 20 percent of the time. When packet switching is used and there are 5 users, find the probablity that all users are sending.

- o a. 0.00064
- ob. 0.0023
- 🔾 c. None
- Od. 0.008
- e. 0.00032
- f. 0.23

The correct answer is: 0.00032

Question 4

Complete Mark 1.00 out of 1.00

Network protocols dividing user data into smaller packets, one of the statements about the packet size limits is wrong, which is it?

- 🔘 a. Experimental work needed to be done in order to find optimal packet size
- b. The larger packets are, the less overhead caused
- c. Packet size affects the end-to-end delay
- Od. None
- e. Decreasing the packet size will cause less overhead

The correct answer is: Decreasing the packet size will cause less overhead

Question 5 Complete Mark 1.00 out of 1.00 Fiber optics cables has a low error rate

🔘 b. False

The correct answer is: True

Question 6
Complete
Mark 1.00 out of 1.00
HTTP/3 runs over UDP
o a. False
 b. True
The correct answer is: True
-
Mark 1.00 out of 1.00
In DNS records the type MX refers to
O a. none
• b. DNS server
C. P2P server
 d. MAll server
The correct answer is: MAIL server

HTTP/1.1 runs over UDP

🔵 a. True

💿 b. False

The correct answer is: False

Question 9

Complete

Mark 0.00 out of 1.00

Which Protocol is used to read an email

- 🔵 a. IMAP
- b. SMTP
- 🔾 c. none
- 🔘 d. FTP

The correct answer is: IMAP

Question 10	
Complete	
Mark 0.00 out of 1.00	

With DASH technique, the videos:

- \bigcirc a. Are transferred with FTP protocol
- b. Are stored with different coding rates
- c. Are transferred with P2P protocol
- O d. Are stored with only high-quality format

The correct answer is: Are stored with different coding rates

Complete

Mark 0.75 out of 1.00

Consider the following string of ASCII characters that were captured by Wireshark when the browser sent an HTTP GET message (i.e., this is the actual content of an HTTP GET message). The characters <cr><lf> are carriage return and line-feed characters.

Answer the following questions,

GET /cs453/index.html HTTP/1.1<cr><lf>Host: gai a.cs.umass.edu<cr><lf>User-Agent: Mozilla/5.0 (Windows;U; Windows NT 5.1; en-US; rv:1.7.2) Gec ko/20040804 Netscape/7.2 (ax) <cr><lf>Accept:ex t/xml, application/xml, application/xhtml+xml, text /html;q=0.9, text/plain;q=0.8,image/png,*/*;q=0.5 <cr><lf>Accept-Language: en-us,en;q=0.5<cr><lf>Accept-Encoding: zip,deflate<cr><lf>Accept-Charset: ISO -8859-1,utf-8;q=0.7,*;q=0.7<cr><lf>Keep-Alive: 300<cr><lf>Connection:keep-alive<cr><lf>Cr><lf>Cr><lf>Accept-Sip

 Does the browser request a non-persistent or a persistent connection?
 a persistent connection

 What is the IP address of the host on which the browser is running?
 192.168.1.1

 What is the URL of the document requested by the browser?
 http://gaia.cs.umass.edu/cs453/index.html \$

 What version of HTTP is the browser running?
 HTTP/1.1

The correct answer is:

Does the browser request a non-persistent or a persistent connection? \rightarrow a persistent connection, What is the IP address of the host on which the browser is running? \rightarrow This piect of information is not given, What is the URL of the document requested by the browser? \rightarrow http://gaia.cs.umass.edu/cs453/index.html, What version of HTTP is the browser running? \rightarrow HTTP/1.1

Mark 1.00 out of 1.00

Consider distributing a file of F = 2 Gbytes to 100 users. The server has an upload rate of us = 30 Mbps, and each user has a download rate of di = 2 Mbps and an upload rate of 700kbps. What is minimum distribution time for clientserver

- a. 6666.667 seconds
- 🔵 b. none
- c. 8000 seconds
- Od. 66666.667 seconds
- e. 16000 seconds
- f. 800000 seconds
- g. 53333.33 seconds

The correct answers are: 53333.33 seconds, none

Question 13

Complete Mark 1.00 out of 1.00

Consider distributing a file of F = 2 Gbytes to 100 users. The server has an upload rate of us = 30 Mbps, and each user has a download rate of di = 2 Mbps and an upload rate of 700kbps. What is minimum distribution time for P2P distribution.

- a. 6666.667 seconds
- b. 8000 seconds
- c. 800000 seconds
- 💿 d. none
- e. 53333.33 seconds
- f. 16000 seconds
- g. 66666.667 seconds

The correct answers are: none, 16000 seconds

Question 14

Complete

Mark 1.00 out of 1.00

Consider sending over HTTP/2 a Web page that consists of one video clip, and four images. Suppose that the video clip is transported as 2000 frames, and each image has three frames. If frames are interleaved, how many frame times are needed until all five images are sent.

- 🔘 a. 18 Frame
- b. 15 Frames
- 🔾 c. None
- Od. 5 Frames
- 🔘 e. 2016 Frame
- f. 2015 Frame

The correct answers are: 18 Frame, 15 Frames

Question 15

Complete Mark 0.00 out of 1.00

Two distinct Web pages (for example, www.birzeit.edu/research.html and www.birzeit.edu/students.html) can be sent over the same persistent connection.

🔵 a. True

💿 b. False

The correct answer is: True

Announcements

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Data retention summary

Dashboard / My courses / COMPUTER NETWORKS-Lecture-1202 - ENCS3320 - Meta / General / Quiz#2

Started on	Tuesday, 4 May 2021, 4:10 PM
State	Finished
Completed on	Tuesday, 4 May 2021, 4:33 PM
Time taken	23 mins 19 secs
Marks	10.67/14.00
Grade	7.62 out of 10.00 (76%)

Question 1

Complete

Mark 1.00 out of 1.00

Suppose that a Web server runs in Host C on port 80. Suppose this Web server uses persistent connections, and is currently receiving requests from two different Hosts, A and B.

All of the requests being sent through the same socket at Host C?

🔵 a. True

💿 b. False

The correct answer is: False

Question **2** Complete Mark 0.00 out of 1.00

Suppose Host A is sending Host B a large file over a TCP connection. The number of unacknowledged bytes that A sends cannot exceed the size of the receive buffer.

🖲 a. False

🔵 b. True

The correct answer is: True

6/

21/2021	Quiz#2: Attempt review
Question 3	
Complete	
Mark 1.00 out of 1.00	
One of the followings is not a service of	Transport layer
 a. Port multiplexing 	
🔾 b. Reliability	
• c. Routing	
O d. Flow control	
The correct answer is: Routing	
Question 4	
Complete	
Mark 1.00 out of 1.00	
Host A is sending Host B a large file over acknowledgments to Host A because H a. False b. True	a TCP connection. Assume Host B has no data to send Host A. Host B will not send tost B cannot piggyback the acknowledgments on data.
The correct answer is: False	
Question 5	
Complete	
Mark 1.00 out of 1.00	
Consider Go-Back-N with window size 4 should be resend?	, if packet#1 is lost and all other packets and ACs are received correctly. which packets
) a. no packets will be resent.	
⊖ b. none.	
○ c. Only packet#2 will be resent.	
In the second	packet#1 within the window will be resent.

The correct answer is: packet#1 and all packets after packet#1 within the window will be resent.

Complete

Mark 0.67 out of 1.00

Consider the TCP connection in the figure.



The correct answer is:
what is the value of f? \rightarrow 270,
what is the value of d? \rightarrow 235,
what is the value of a? \rightarrow 200

Question 7
Complete
Mark 0.00 out of 1.00
consider a shared link and TCP, it is possible to get more bandwidth, if a browser opens several parallel connections.
a. False
O b. True
The correct answer is: True
Question 8
Complete
Mark 1.00 out of 1.00
Consider SR protocol with 10 sequence number, the largest window size should not exceed
• a 512
\bigcirc b. 2
○ ~· _ ○ c. 1023
\bigcirc d. 1
O e. 1024
f. None
The correct answers are: 512, 2, None
The correct answers are: 512, 2, None

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-			

Complete Mark 1.00 out of 1.00

Suppose Host A sends two TCP segments back to back to Host B over a TCP connection. The first segment has sequence number 50; the second has sequence number 90. How much data is in the first segment?

- a. 50b. 90
- 0.70
- O c. 10
- 🔾 d. None
- e. 1
- f. 40

The correct answer is: 40

Question 10
Complete
Mark 1.00 out of 1.00
QUIC protocol tries to reduce the required RTTs.
U. Faise
The correct answer is: True
Question 11
Complete
Mark 1.00 out of 1.00
Suppose that the last SampleRTT in a TCP connection is equal to 1 sec. The current value of TimeoutInterval for the connection
will necessarily be > 1 sec.
a. False
🔿 b. True
The correct answer is: False
Question 12
Complete
Mark 1.00 out of 1.00
The size of the TCP rwnd never changes throughout the duration of the connection.
The correct answer is: False

6/2	1/2021 Quiz#2: Attempt review
	Question 13
	Complete
	Mark 1.00 out of 1.00
	Suppose a process in Host C has a UDP socket with port number 6789. Suppose both Host A and Host B each send a UDP segment to Host C with destination port number 6789.
	Both of these segments be directed to the same socket at Host C?
	In a. True
	○ b. False
	The correct answer is: True
	Question 14
	Complete
	Mark 0.00 out of 1.00
	Suppose Host A sends two TCP segments back to back to Host B over a TCP connection. The first segment has sequence number 50; the second has sequence number 90. Suppose that the first segment is lost but the second segment arrives at B. In the acknowledgment that Host B sends to Host A, what will be the acknowledgment number?
	⊖ a. None
	O b. 40
	○ c. 50
	d. 90
	○ e. 10
	○ f. 1

The correct answer is: 50

< Project1	
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Quiz3 🕨

Data retention summary

Dashboard / My courses / COMPUTER NETWORKS-Lecture-1202 - ENCS3320 - Meta / General / Quiz3

```
        Started on
        Tuesday, 25 May 2021, 4:16 PM

        State
        Finished

        Completed on
        Tuesday, 25 May 2021, 4:45 PM

        Time taken
        28 mins 45 secs

        Grade
        14.00 out of 20.00 (70%)
```

Question 1

Complete

Mark 1.50 out of 2.00

What advantages and disadvantages does Crossbar switching fabric has over Bus switching fabric?

The Advantages: It solves the bottleneck limitation by increasing the number of buses (exploiting parallelism),

Question 2

Complete Mark 1.50 out of 2.00

What is Generalized forwarding and how it is useful?

Each router contains a flow table to calculate where every input must go for any output port (match) and choose

Question 3

Complete Mark 2.00 out of 2.00

Briefly explain how NAT works (1 point) and what is the purpose of it (1 point)?

It converts the local address to global one and vice versa (helps IPv4 address space exhaustion).

It provides more addresses.

Complete

Mark 0.00 out of 1.00

What is routi	ng and what is forwarding?	
Routing	When assigning proper IP address to Router ports based on their routing tables	\$
Forwarding	Is when routers work together to build up their routing tables	\$

The correct answer is:

Routing \rightarrow Is when routers work together to build up their routing tables,

Forwarding \rightarrow Is when a router decides the direction in which a packet is redirected based on the routing table

Question 5	
Complete	
Mark 2.00 out of 3.00	

For a host with IP address 206.12.55.30/23, what is the network IP address, what is the host portion of the address, and what is the broadcast address?

In binary numbers, what is the host portion of the address	11001110.00001100.0011011x.xxxxxxx \$	
what is the network IP address?	206.12.54.0	
what is the broadcast address?	206.12.55.255 \$	

The correct answer is:	
In binary numbers, what is the host portion of the address \rightarrow xxxxxxxxxxxxxxxxxxxxx1.00011110,	
what is the network IP address? \rightarrow 206.12.54.0,	
what is the broadcast address? \rightarrow 206.12.55.255	

Jestion 6	Question 6	
omplete	Complete	
ark 1.00 out of 1.00	Mark 1.00 out of 1.00	
Link the network layers with name given to its packets	Link the networ	
Transport layer Segment 🗢	Transport layer	
Network layer Datagram 🜩	Network layer	
The correct answer is:		
Transport layer \rightarrow Segment,		
Network layer \rightarrow Datagram		
	i to thore day of	

Question 7
Complete
Mark 2.00 out of 2.00
 Assume a host sends 40 bytes of data encapsulated in a TCP/IP packet, what percentage of the datagram will be overhead? a. 33% b. 25% c. 10% d. 50%
The correct answer is: 50%
Question 8 Complete Mark 2.00 out of 2.00
For a host with IP address 206.12.55.30/23, would it need a router in order to communicate with host 206.12.54.40/23? a. Yes b. No
The correct answer is: No
Question 9 Complete Mark 0.00 out of 1.00
If a router has 4 different ports, how many input and output queues should it have?
○ b. 1
• c. 4
O d. 2

The correct answer is: 8

Complete	
Mark 0.00 out of	1.00

If you knew that a particular Network Interface Card (NIC) requires an IP address, what does that tell you about the NIC?
a. It must have a Physical Layer
b. It must have a Data Link Layer
C. It must have a Network Layer
🗹 d. It must have a Transport Layer
The correct answers are: It must have a Physical Layer,
It must have a Network Layer,
It must have a Data Link Layer
Question 11
Complete
Mark 1.00 out of 1.00

What field in the IP header can be used to ensure that a packet is forwarded through no more than N routers?

- 🔘 a. Fragment offset
- 🔵 b. Ver
- c. Time to Live
- 🔵 d. Length
- e. Header checksum

The correct answer is: Time to Live

Complete

Mark 0.00 out of 1.00

What is the Network Layer's forwarding decision based on?

- 🔘 a. Based on MAC address and IP prefix match
- b. Based on the IP address and Port number
- c. It is flexible, could be MAC address, IP, or Port number
- O d. Based on the longest IP prefix match

The correct answer is: Based on the longest IP prefix match

Question 13

Complete Mark 1.00 out of 1.00

When does HOL occur?

- O a. When two packets arrive at the same input port, later one is HOLed
- b. When two packets coming from different input are bound to the same output port
- O c. When two packets arrive at different input ports and bounded to different output ports
- \bigcirc d. When two packets arrive at the same input port at the same time

The correct answers are: When two packets coming from different input are bound to the same output port, When two packets arrive at the same input port at the same time, When two packets arrive at the same input port, later one is HOLed, When two packets arrive at different input ports and bounded to different output ports

◀ Quiz#2

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Project2 ►

Data retention summary