Started on Thursday, 17 November 2022, 9:56 AM

State Finished

Completed on Thursday, 17 November 2022, 10:10 AM

Time taken 14 mins

Grade 6.00 out of 20.00 (30%)

Question 1

Incorrect

Mark 0.00 out of 1.00

About the TCP and UDP packet header, the "Acknowledgement Number" field is included in Neither TCP nor UDP header

UDP Header Only

TCP Header Only

Both TCP and UDP header

The correct answer is:

About the TCP and UDP packet header, the "Acknowledgement Number" field is included in [TCP Header Only].

Question 2 Correct Mark 1.00 out of 1.00

Which mechanism is used to provide TCP flow control? sliding window

The correct answer is:

Which mechanism is used to provide TCP flow control? [sliding window]

Partially correct Mark 0.50 out of 1.00

12/19/22, 1:41 PM Quiz 3: Sec1: Attempt review Question 3 Partially correct Mark 0.50 out of 1.00 Consider assign an IPv6 address to an interface that has the MAC address value of 03-21-44-33-A5-B4 by using SLACC, • What will be the 64-bit interface ID? Answer: What will be the link-local address? Answer: fe80::121:44ff:fe33:a5b4 03 => 0000 0011 Invert bit 7 ==> 0000 0001 => 01 Question 4 Correct Mark 1.00 out of 1.00 Given the following sliding window: 1 2 3 6 7 8 5 10 11 Suppose a sender receives ACK# = 5 and window size = 3 Then, the sliding window will include which bytes. (Separate each byte by a comma without including any space, e.g., 1,2,3,4) 5,6,7 Answer: The correct answer is: 5,6,7 Question 5

web proxy stores responses to client's requests, and helps reduce client workload

The correct answer is: A [web proxy] stores responses to client's requests, and helps [reduce delivery time of a response].

2/19/22, 1:4	11 PM Quiz 3: Sec1: Attempt review
Question 6 Incorrect Mark 0.00 o	
SYN+A	connection establishment, the 3rd packet that will be sent out is the SYN × packet. ACK HELLO URG FIN ACK rect answer is: connection establishment, the 3rd packet that will be sent out is the [ACK] packet.
Question 7	
Partially cor Mark 1.00 o	
Which s	statement(s) are true regarding the email protocol? (Your score will be partially deducted for any wrong answer.)
a.	An MTA utilizes the IMAP4 protocol.
□ b.	SMTP uses UDP service.
□ c.	IMAP4 runs on a web browser enabling users to send their emails.
□ d.	Examples of a user agent include Microsoft Outlook and Apple Mail.
✓ e.	POP3 is a protocol used for retrieving emails. ✓

The correct answers are:

Examples of a user agent include Microsoft Outlook and Apple Mail.,

POP3 is a protocol used for retrieving emails.

/19/22, 1:41 PM	Quiz 3: Sec1: Attempt review
Question 8	
Incorrect	
Mark 0.00 out of 1.00	
Which of the following is an IPv4 private address?	
○ a. 10.256.7.8	
O b. 8.8.8.8	
oc. 172.31.44.5	
⊚ d. 101.72.52.54 ×	
○ e. 1192.168.1.2	
The correct answer is:	
172.31.44.5	
Question 9	
Incorrect	
Mark 0.00 out of 1.00	
Suppose a computer sends a TCP segment with Sequence No. 99 wit peer?	h 1001 bytes, what will be the Acknowledgement No. returns back from its
Input only a numeric.	
Answer: 100	
The correct answer is: 1100	

Question 10

Partially correct

Mark 1.00 out of 2.00

Suppose a web page with 6 resource files.

- Server 1 contains this web page and 3 text files
- Server 2 contains 1 image file.
- The remaining files are stored separately on different servers.

How many TCP connections are required for a client to request this web page and all the resource files under persistent and non-persistent approaches?

Persistent:

×

Non-Persistent:





* input only the number

Question 11

Incorrect

Mark 0.00 out of 3.00

Suppose in the current round ssthresh = 32 and the cwnd = 34, and the sender detects a packet loss based on a timeout. If **TCP Reno** is adopted, then

• The new ssthresh is



x . (input the number only)

• The new cwnd is



. (input the number only)

• The system enters the congestion avoidance **x** mode.

710/22, 1.411101	auz o. oco i. Attempt review
Question 12 Incorrect	
Mark 0.00 out of 1.00	
The port number 22 is considered as a Dynamic port	
The correct answer is: The port number 22 is considered as a [Well-known port].	
Question 13 Not answered	
Marked out of 1.00	
Change the following IPv6 notation to a 128-bit full address. fe80::1:22:333:4444 Hint: We must have 8 groups of hexadecimal.	
Answer:	×

The correct answer is: fe80:0000:0000:0000:0001:0022:0333:4444

Question	1	4
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Incorrect

Mark 0.00 out of 1.00

Comparing to the IPv4 header, which field is not included in the IPv6 header?

Answer: Source IP address

The correct answer is:

Comparing to the IPv4 header, which field is not included in the IPv6 header?

Answer: [Header Checksum]

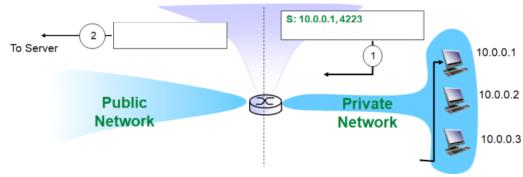
Question 15

Incorrect

Mark 0.00 out of 1.00

According to the NAT Translation table below, what would be the source IP address and source port number of Packet 2?

- Source IP address == 165.3.2.1
- Source Port Number == 80

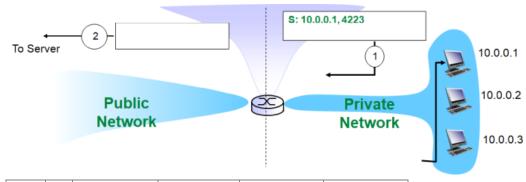


Line#	Pro	Inside Global	Inside Local	Outside Local	Outside Global
1	ТСР	75.4.3.1:5533	10.0.0.1:5533	165.3.2.1:80	165.3.2.1:80
2	UDP	75.4.3.1:5534	10.0.0.2:5533	202.12.8.1:22	202.12.8.1:22
3	TCP	75.4.3.1:1024	10.0.0.3:5001	74.5.8.2:80	74.5.8.2:80
4	UDP	75.4.3.1:1028	10.0.0.1:4223	8.8.8.8:53	8.8.8.8:53
5					

The correct answer is:

According to the NAT Translation table below, what would be the source IP address and source port number of Packet 2?

- Source IP address == [74.5.3.1]
- Source Port Number == [1028]



Line#	Pro	Inside Global	Inside Local	Outside Local	Outside Global
1	TCP	75.4.3.1:5533	10.0.0.1:5533	165.3.2.1:80	165.3.2.1:80
2	UDP	75.4.3.1:5534	10.0.0.2:5533	202.12.8.1:22	202.12.8.1:22
3	TCP	75.4.3.1:1024	10.0.0.3:5001	74.5.8.2:80	74.5.8.2:80

4	UDP	75.4.3.1:1028	10.0.0.1:4223	8.8.8.8:53	8.8.8.8:53
5					

Question 16	
Correct	
Mark 1.00 out of 1.00	

Select whether the below characteristics below to TCP or UDP.

•	Has a sliding window	ТСР	•
•	No handshaking	UDP	~

The correct answer is:

Select whether the below characteristics below to TCP or UDP.

- Has a sliding window [TCP]
- No handshaking [UDP]