

Session 2/27/15-2 Summary Report : [Introduction to Networking-CS450-1](#)

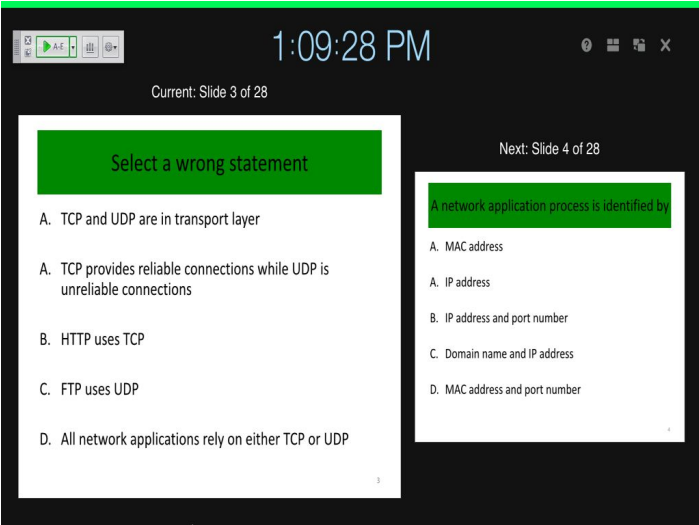
Date **2/27/15**Number of Students: **22**Total Questions: **26**Total Points Available: **27**Session Average: **23.95**Questions Asked: **27**Questions Deleted: **1**Participation Points Available: **1**Performance Points Available: **26****AP = Anonymous Polling.****Session Average = Average calculation based only on students who voted in this session.****Average Score per Question: Average calculation based only on students who responded to this question.**

Question Title	Time Started	Time Stopped	Number of Responses	Maximum Score	Average Score
Question 2	1:09:28 PM	1:10:50 PM	19	1.00	0.89
Question 3	1:11:16 PM	1:12:28 PM	21	1.00	1.00
Question 4	1:12:50 PM	1:14:14 PM	21	1.00	0.95
Question 5	1:14:30 PM	1:15:54 PM	22	1.00	1.00
Question 6	1:16:01 PM	1:17:23 PM	22	1.00	0.32
Question 7	1:18:28 PM	1:19:45 PM	22	1.00	1.00
Question 8	1:19:51 PM	1:20:53 PM	22	1.00	0.86
Question 9	1:20:59 PM	1:22:25 PM	22	1.00	1.00
Question 10	1:22:30 PM	1:23:33 PM	22	1.00	1.00
Question 11	1:23:39 PM	1:25:02 PM	22	1.00	0.91
Question 12	1:25:09 PM	1:26:30 PM	22	1.00	1.00
Question 13	1:26:35 PM	1:27:58 PM	22	1.00	0.82
Question 14	1:28:03 PM	1:29:26 PM	22	1.00	0.59
Question 15	1:29:31 PM	1:30:41 PM	22	1.00	1.00
Question 16	1:30:44 PM	1:31:52 PM	22	1.00	0.95
Question 17	1:31:58 PM	1:33:12 PM	22	1.00	0.95
Question 18	1:33:16 PM	1:34:39 PM	22	1.00	0.91
Question 19	1:34:42 PM	1:36:05 PM	22	1.00	0.86
Question 20	1:36:08 PM	1:37:11 PM	22	1.00	1.00
Question 21	1:37:15 PM	1:38:09 PM	22	1.00	0.95
Question 22	1:38:12 PM	1:39:37 PM	22	1.00	0.41
Question 23	1:39:45 PM	1:41:08 PM	22	1.00	0.95

Question 24	1:41:15 PM	1:42:37 PM	22	1.00	0.86
Question 25	1:42:43 PM	1:44:06 PM	22	1.00	1.00
Question 26	1:44:14 PM	1:45:36 PM	22	1.00	1.00
Question 27	1:45:42 PM	1:47:04 PM	22	1.00	0.95

Question 2

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:09:28 PM Correct Answer(s): D		Maximum Score: 1.00 Number of Responses: 19 Number Missing: 3 Class Average: 0.89	
Answer	#	%	Performance Points
A	0	0%	0
B	0	0%	0
C	2	11%	0
D	17	89%	1
E	0	0%	0



Current: Slide 3 of 28

Next: Slide 4 of 28

Select a wrong statement

A. TCP and UDP are in transport layer

A. TCP provides reliable connections while UDP is unreliable connections

B. HTTP uses TCP

C. FTP uses UDP

D. All network applications rely on either TCP or UDP

A network application process is identified by

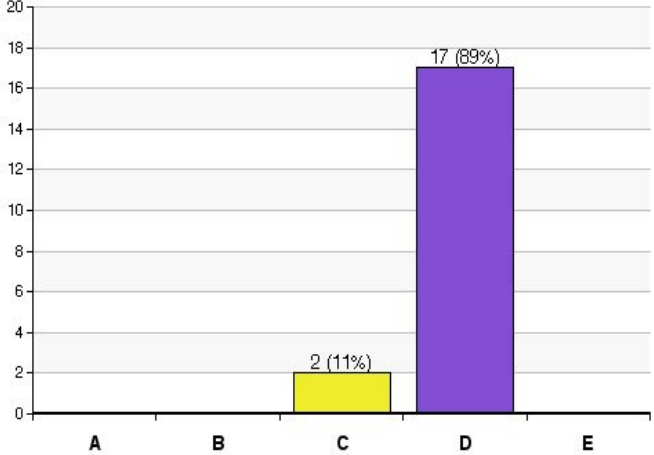
A. MAC address

A. IP address

B. IP address and port number

C. Domain name and IP address

D. MAC address and port number



Answer	Count	Percentage
A	0	0%
B	0	0%
C	2	11%
D	17	89%
E	0	0%

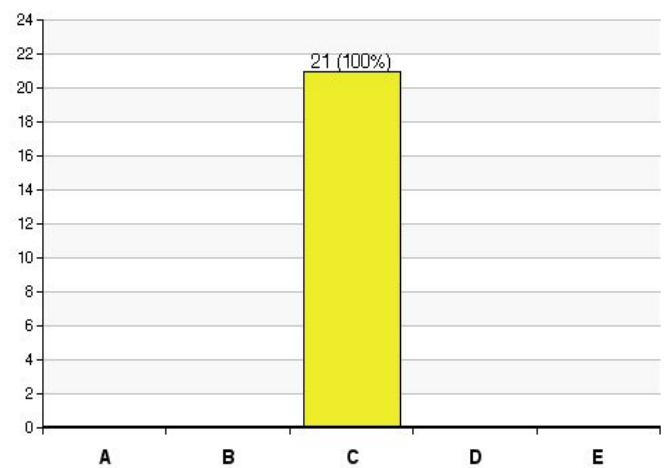
Question 3

Question Type: **Multiple Choice**Significant Characters: **16**Time Started: **1:11:16 PM**Correct Answer(s): **C**Maximum Score: **1.00**Number of Responses: **21**Number Missing: **1**Class Average: **1.00**

Answer	#	%	Performance Points
A	0	0%	0
B	0	0%	0
C	21	100%	1
D	0	0%	0
E	0	0%	0

A network application process is identified by

- A. MAC address
- A. IP address
- B. IP address and port number
- C. Domain name and IP address
- D. MAC address and port number



Question 4

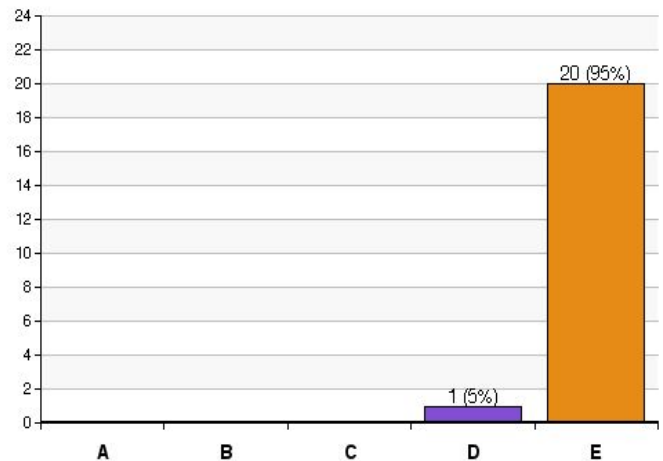
Question Type: **Multiple Choice**Significant Characters: **16**Time Started: **1:12:50 PM**Correct Answer(s): **E**Maximum Score: **1.00**Number of Responses: **21**Number Missing: **1**Class Average: **0.95**

Answer	#	%	Performance Points

A	0	0%	0
B	0	0%	0
C	0	0%	0
D	1	5%	0
E	20	95%	1

UDP is unreliable, why we still need it?

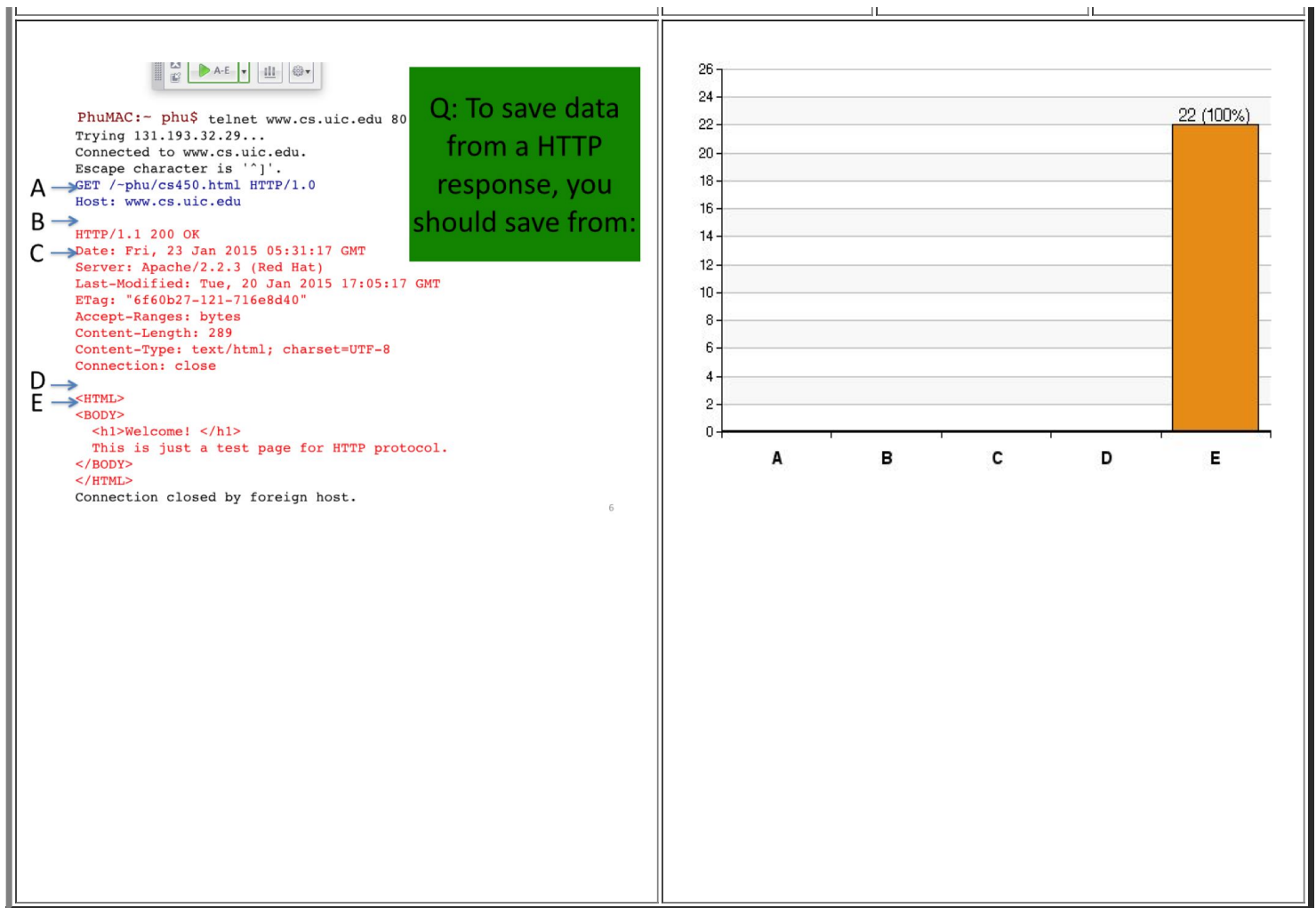
- A. Because TCP is bad
- A. Because UDP is good
- B. Because in some cases, UDP is better than TCP
- C. Because UDP is speedy
- D. C and D are both correct



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Question 5

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:14:30 PM Correct Answer(s): E		Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 1.00	
Answer	#	%	Performance Points
A	0	0%	0
B	0	0%	0
C	0	0%	0
D	0	0%	0
E	22	100%	1

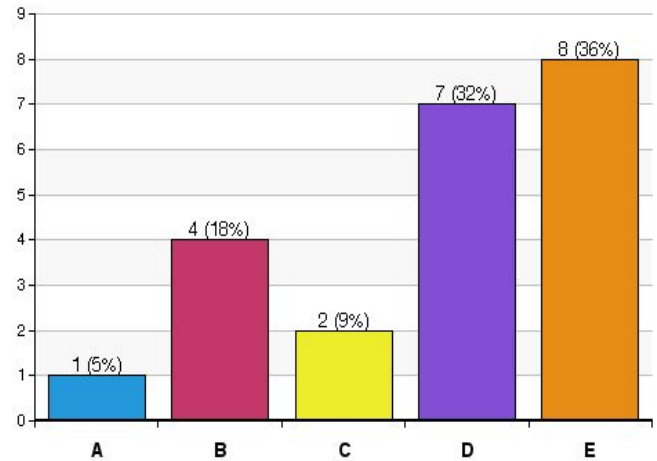


Question 6

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:16:01 PM Correct Answer(s): D		Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 0.32	
Answer	#	%	Performance Points
A	1	5%	0
B	4	18%	0
C	2	9%	0
D	7	32%	1
E	8	36%	0

Select a correct statement

- A. Persistent HTTP uses more connections.
- B. Persistent HTTP sends fewer HTTP requests
- C. Persistent HTTP sends more HTTP requests
- D. Persistent HTTP uses less connections to improve download time
- E. Both B and D are correct



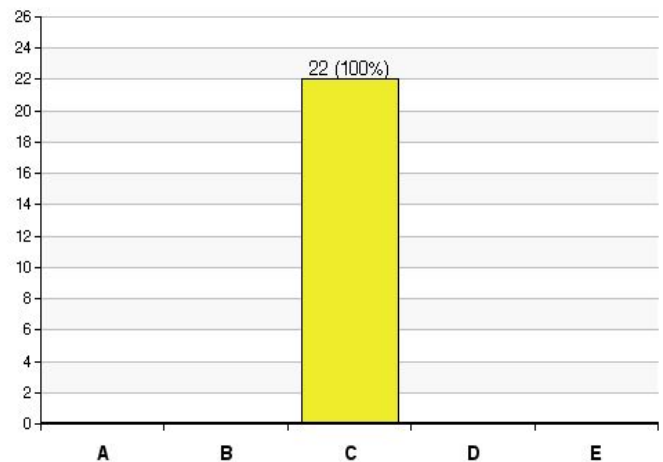
7

Question 7

Question Type: Multiple Choice
 Significant Characters: 16
 Time Started: 1:18:28 PM
 Correct Answer(s): C

Maximum Score: 1.00
 Number of Responses: 22
 Number Missing: 0
 Class Average: 1.00

Answer	#	%	Performance Points
A	0	0%	0
B	0	0%	0
C	22	100%	1
D	0	0%	0
E	0	0%	0



Why \r\n (CRLF) is used in HTTP request?

- A. Just unnecessary protocol format
- B. They are automatically generated when user hits ENTER
- C. They are used to indicate the end of a header field or section
- D. None of above is correct

8

Question 8

Question Type: **Multiple Choice**
 Significant Characters: **16**
 Time Started: **1:19:51 PM**
 Correct Answer(s): **C**

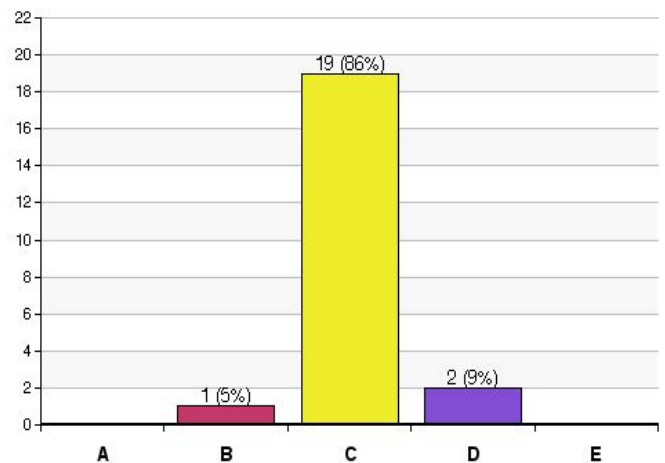
Maximum Score: **1.00**
 Number of Responses: **22**
 Number Missing: **0**
 Class Average: **0.86**

Answer	#	%	Performance Points
A	0	0%	0
B	1	5%	0
C	19	86%	1
D	2	9%	0
E	0	0%	0

Why cookies are used in HTTP

- A. It is required by law
- B. To improve non-persistent HTTP
- C. Because HTTP is stateless
- D. All above are correct

9



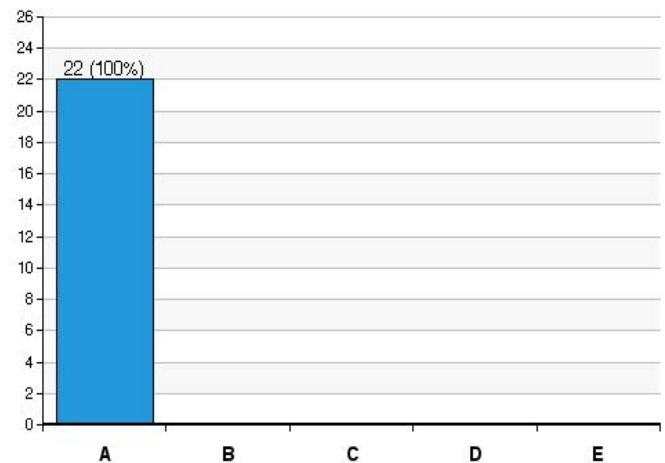
Question 9

Question Type: **Multiple Choice**Significant Characters: **16**Time Started: **1:20:59 PM****Correct Answer(s): A**Maximum Score: **1.00**Number of Responses: **22**Number Missing: **0**Class Average: **1.00**

Answer	#	%	Performance Points
A	22	100%	1
B	0	0%	0
C	0	0%	0
D	0	0%	0
E	0	0%	0

When Alice sends an email to Bob

- A. Alice's mail server will send the email to Bob's mail server
- B. Alice's mail client will send the email to Bob's mail client
- C. Alice's mail client will send the email to Bob's mail server
- D. Alice's mail server will send the email to Bob's mail client



10

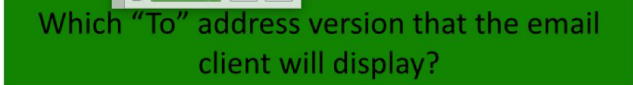
Question 10

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:22:30 PM Correct Answer(s): A	Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 1.00		
Answer	#	%	Performance Points
A	22	100%	1
B	0	0%	0
C	0	0%	0
D	0	0%	0
E	0	0%	0
<div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>How to prevent one inputs a fake FROM address?</div></div> <div><div>A. We cannot prevent that</div><div>A. The MTA will check the FROM address if it is valid</div></div>		<div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div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Question 11

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:23:39 PM Correct Answer(s): B	Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 0.91		
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Answer	#	%	Performance Points
A	1	5%	0
B	20	91%	1
C	0	0%	0
D	1	5%	0
E	0	0%	0



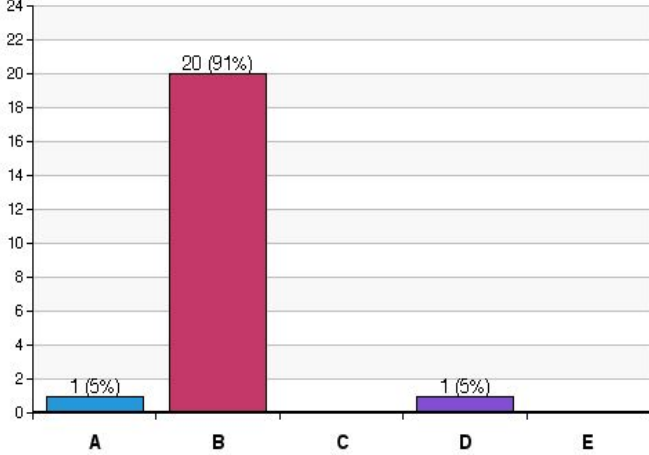
Which "To" address version that the email client will display?

A. Address in the "RCPT TO" SMTP command

B. Address in the "To" email header

C. Both A and B

D. A or B because they must be the same

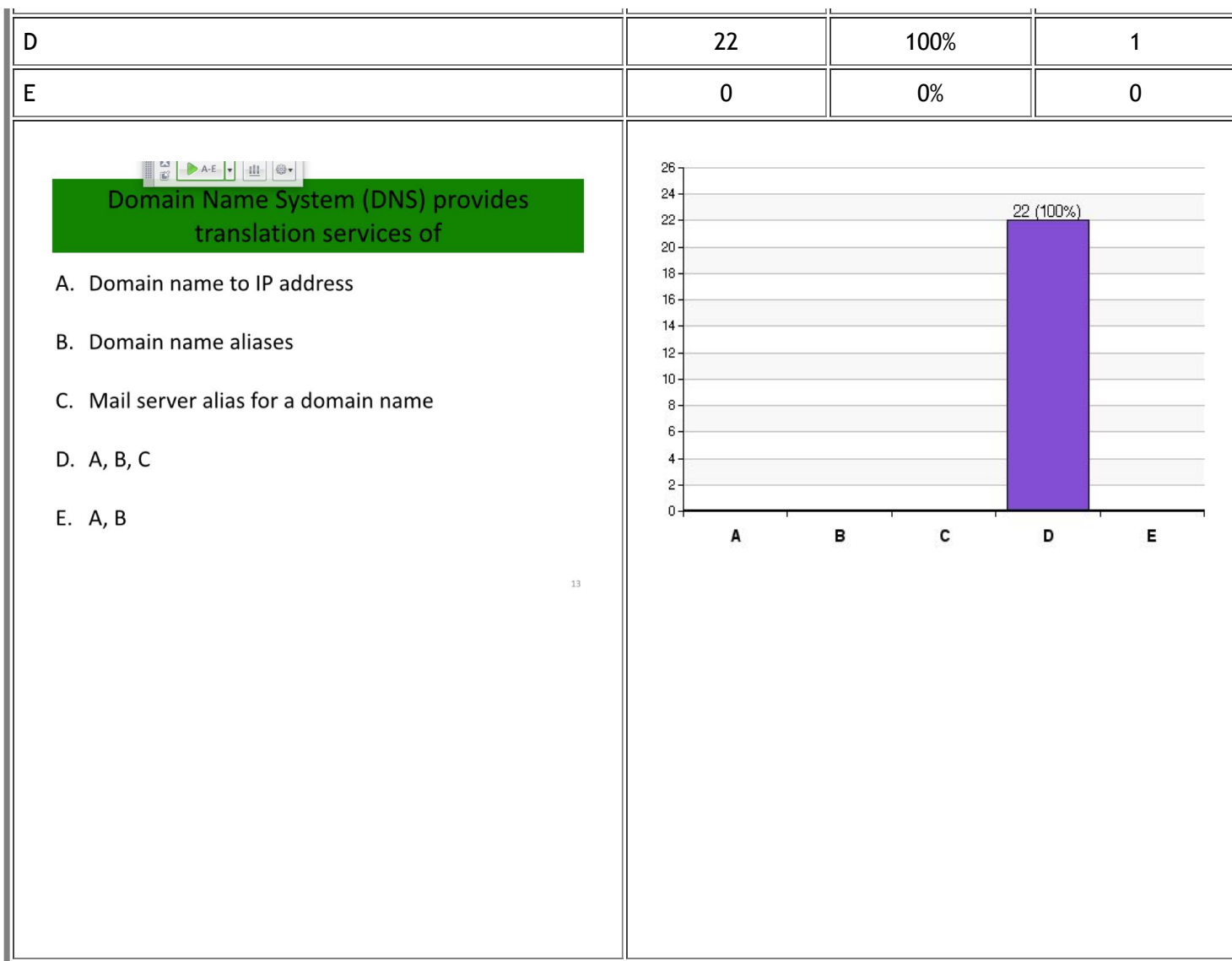


Answer	Count	Percentage
A	1	5%
B	20	91%
C	0	0%
D	1	5%
E	0	0%

12

Question 12

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:25:09 PM Correct Answer(s): D	Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 1.00		
Answer	#	%	Performance Points
A	0	0%	0
B	0	0%	0
C	0	0%	0



13

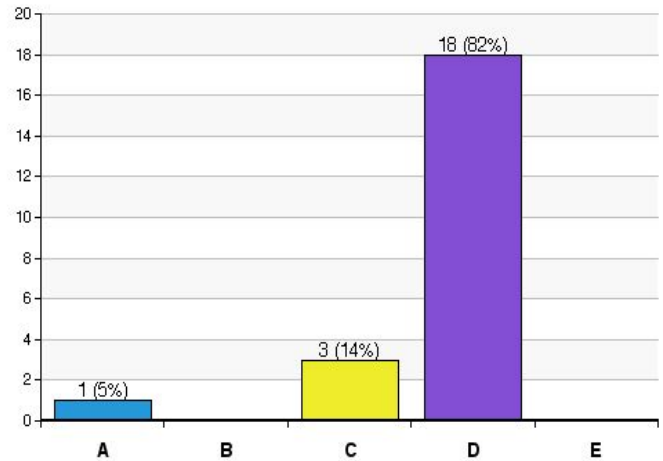
Question 13

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:26:35 PM Correct Answer(s): D		Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 0.82	
Answer	#	%	Performance Points
A	1	5%	0
B	0	0%	0
C	3	14%	0
D	18	82%	1
E	0	0%	0

Select a wrong statement

- A. A name in DNS might be mapped with many IP addresses
- B. Multiple domain name might be pointed to one IP address
- C. DNS service can provide a reverse lookup from an IP address to a domain name
- D. DNS only uses TCP transport service

14



Question 14

Question Type: Multiple Choice
 Significant Characters: 16
 Time Started: 1:28:03 PM
 Correct Answer(s): E

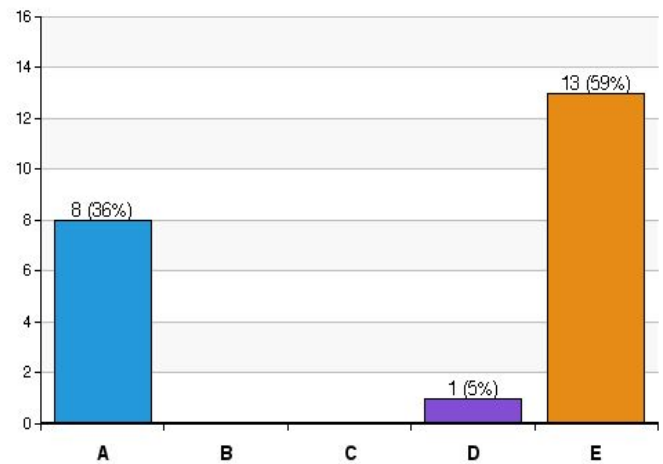
Maximum Score: 1.00
 Number of Responses: 22
 Number Missing: 0
 Class Average: 0.59

Answer	#	%	Performance Points
A	8	36%	0
B	0	0%	0
C	0	0%	0
D	1	5%	0
E	13	59%	1

When lookup a domain name, your machine first sends a request to

- A. The local name server of your network
- B. Top-level name server
- C. Authoritative name server
- D. Root name server
- E. A name server set in your machine

15



Question 15

Question Type: Multiple Choice

Significant Characters: 16

Time Started: 1:29:31 PM

Correct Answer(s): A

Maximum Score: 1.00

Number of Responses: 22

Number Missing: 0

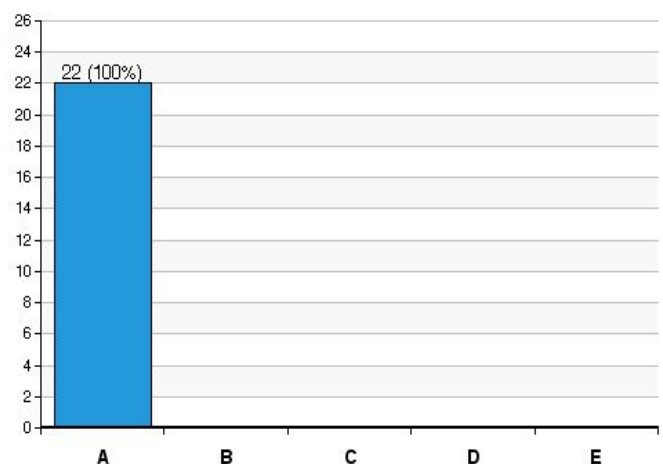
Class Average: 1.00

Answer	#	%	Performance Points
A	22	100%	1
B	0	0%	0
C	0	0%	0
D	0	0%	0
E	0	0%	0

BitTorrent is typically used as hybrid peer-to-peer and client-server system

- A. True
- B. False

16



Question 16

Question Type: **Multiple Choice**Significant Characters: **16**Time Started: **1:30:44 PM**Correct Answer(s): **C**Maximum Score: **1.00**Number of Responses: **22**Number Missing: **0**Class Average: **0.95**

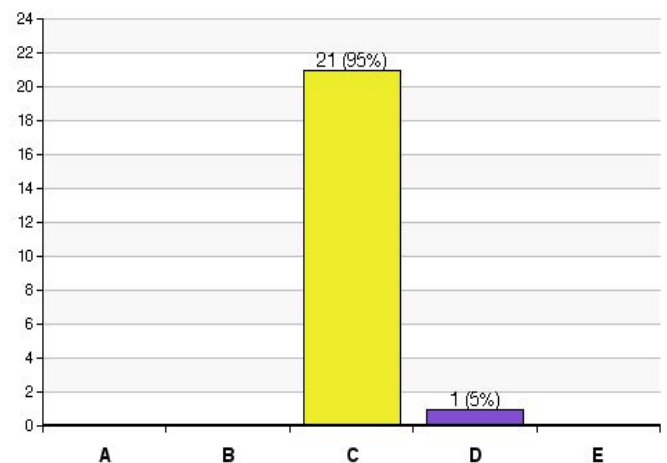
Answer	#	%	Performance Points
A	0	0%	0
B	0	0%	0
C	21	95%	1
D	1	5%	0
E	0	0%	0



BitTorrent uses tit-for-tat in each round to

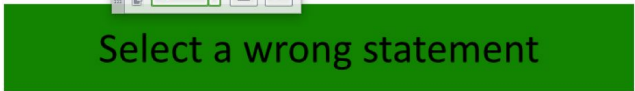
- A. Determine which chunks to download
- B. Determine from which peers to download chunks
- C. Determine to which peers to upload chunks
- D. Determine which peers to report to the tracker as uncooperative
- E. Determine whether or how long it should stay after completing download

17



Question 17

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:31:58 PM Correct Answer(s): A	Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 0.95		
Answer	#	%	Performance Points
A	21	95%	1
B	0	0%	0
C	0	0%	0
D	0	0%	0
E	1	5%	0



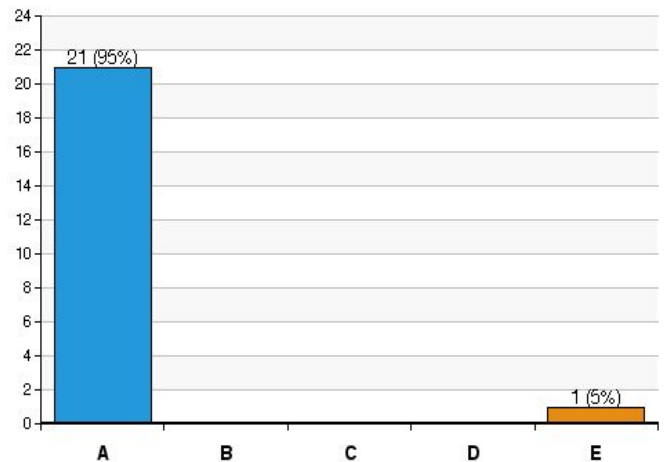
A. Both TCP and UDP need connection setup

B. Delivery of UDP packets is unordered

C. TCP provides reliable transport protocol

D. TCP provides congestion control while UDP does not

E. Neither TCP nor UDP has delay guarantees



Option	Count	Percentage
A	21	95%
B	0	0%
C	0	0%
D	0	0%
E	1	5%

Question 18

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:33:16 PM Correct Answer(s): A	Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 0.91		
--	--	--	--

Answer	#	%	Performance Points
A	20	91%	1
B	0	0%	0
C	2	9%	0
D	0	0%	0
E	0	0%	0

Let's assume a sender sent a UDP segment with (checksum, data) = (0110, 0101); and the receiver received (0100, 0101). The receiver can conclude

A. The segment is corrupted

B. The checksum is wrong

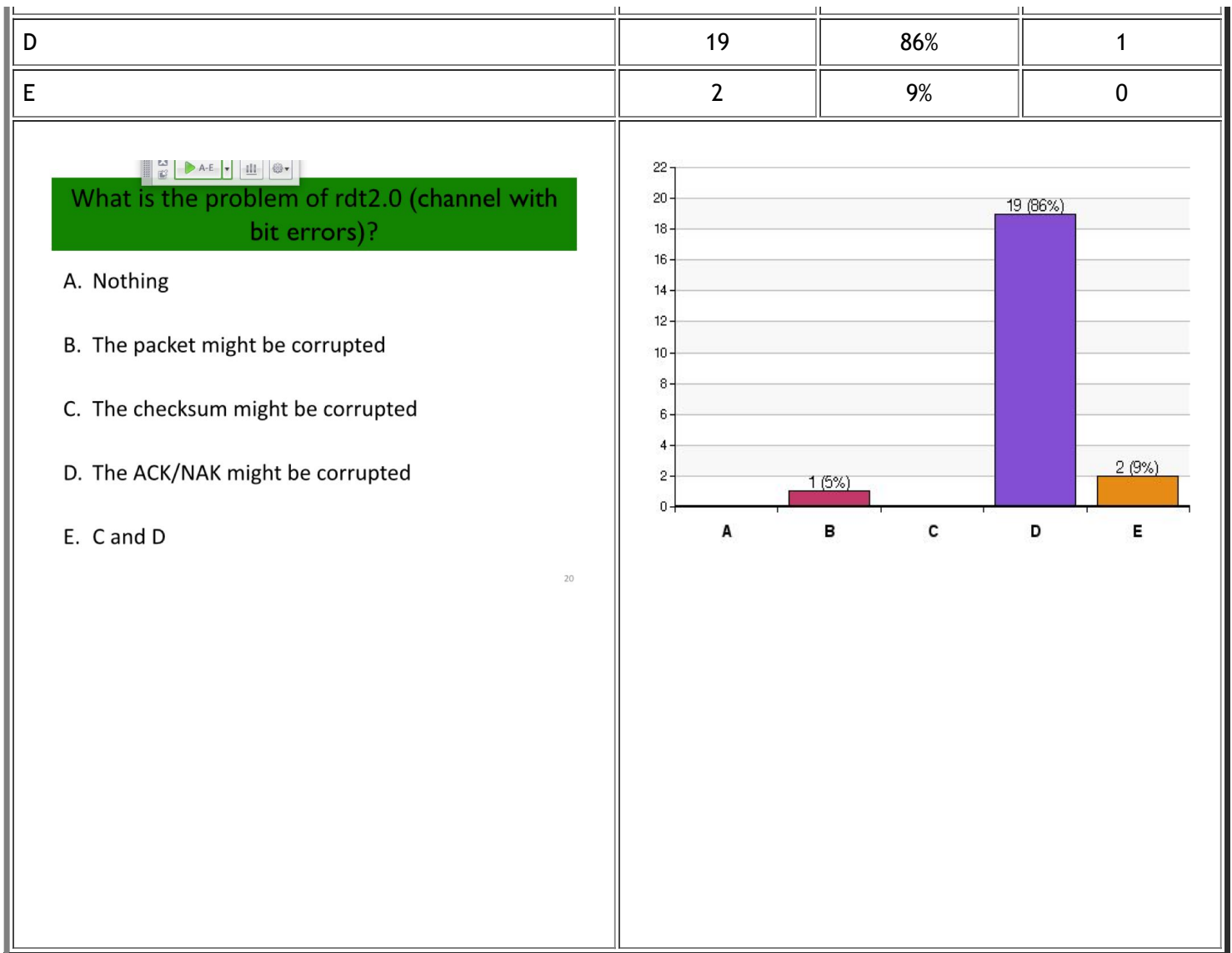
C. The data is correct

D. B and C

Answer	#	%
A	20	91%
C	2	9%

Question 19

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:34:42 PM Correct Answer(s): D	Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 0.86		
Answer	#	%	Performance Points
A	0	0%	0
B	1	5%	0
C	0	0%	0



20

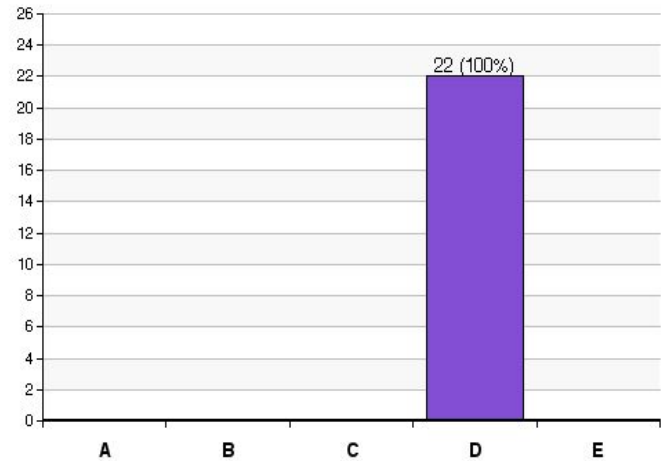
Question 20

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:36:08 PM Correct Answer(s): D		Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 1.00	
Answer	#	%	Performance Points
A	0	0%	0
B	0	0%	0
C	0	0%	0
D	22	100%	1
E	0	0%	0

rdt2.2 provides reliable data transfer with possibility of packet corruption, which fields it needs?

- A. Checksum
- B. Checksum, ACK
- C. Checksum, ACK, NAK
- D. Checksum, ACK, sequence number
- E. Checksum, ACK, NAK, sequence number

21



Question 21

Question Type: **Multiple Choice**
 Significant Characters: **16**
 Time Started: **1:37:15 PM**
 Correct Answer(s): **B**

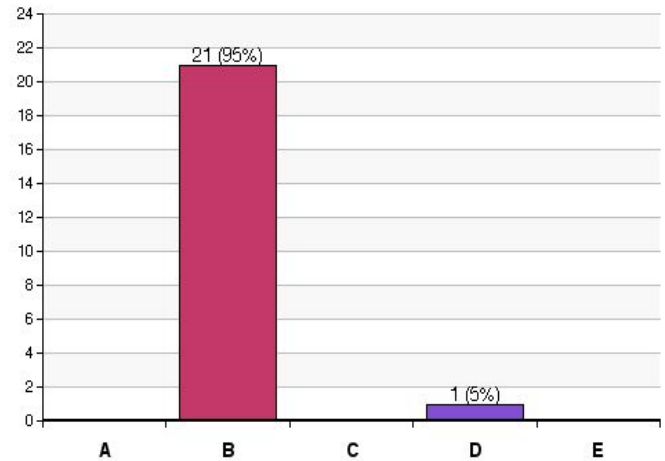
Maximum Score: **1.00**
 Number of Responses: **22**
 Number Missing: **0**
 Class Average: **0.95**

Answer	#	%	Performance Points
A	0	0%	0
B	21	95%	1
C	0	0%	0
D	1	5%	0
E	0	0%	0

What is the new feature in rdt 3.0 compared with rdt 2.x?

- A. Larger sequence number
- B. Timer
- C. Checksum
- D. ACK
- E. NAK

22



Question 22

Question Type: Multiple Choice
 Significant Characters: 16
 Time Started: 1:38:12 PM
 Correct Answer(s): E

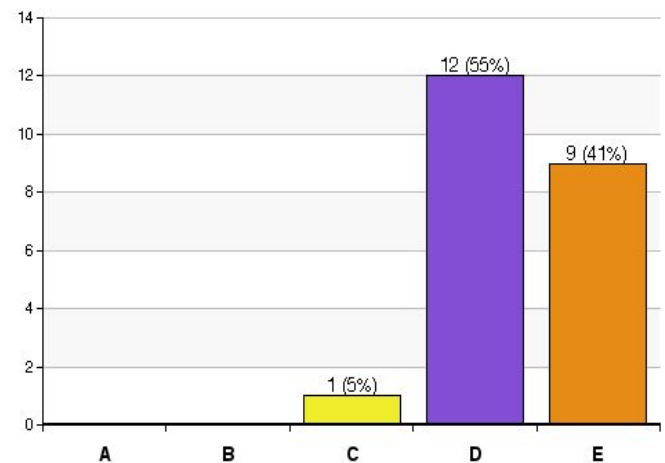
Maximum Score: 1.00
 Number of Responses: 22
 Number Missing: 0
 Class Average: 0.41

Answer	#	%	Performance Points
A	0	0%	0
B	0	0%	0
C	1	5%	0
D	12	55%	0
E	9	41%	1

Select a wrong statement about Go-Back-N

- A. GBN uses cumulative ACKs
- B. GBN uses timeouts to address packet loss
- C. GBN has one timer for each unacked packet
- D. GNB uses NACKs
- E. C and D

23



Question 23

Question Type: Multiple Choice

Significant Characters: 16

Time Started: 1:39:45 PM

Correct Answer(s): A

Maximum Score: 1.00

Number of Responses: 22

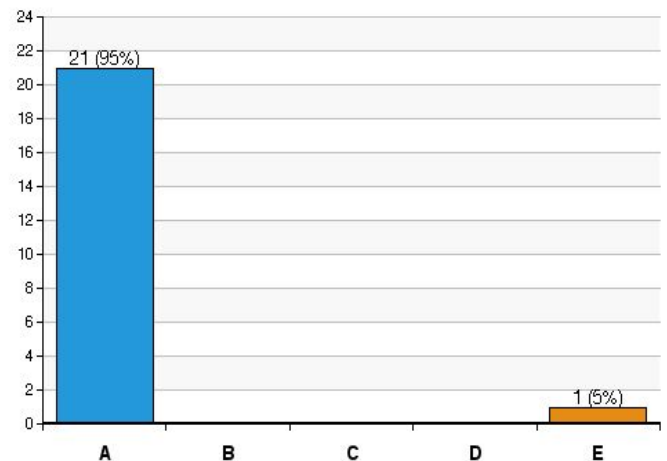
Number Missing: 0

Class Average: 0.95

Answer	#	%	Performance Points
A	21	95%	1
B	0	0%	0
C	0	0%	0
D	0	0%	0
E	1	5%	0

Sender sends seq#=101, with data length = 20 bytes, and receives ack = 91. What is true?

- A. The receiver has successfully received up to seq# 90
- B. The packet with seq#=101 was lost
- C. The packet with seq#=91 was lost
- D. A and B
- E. A and C



Question 24

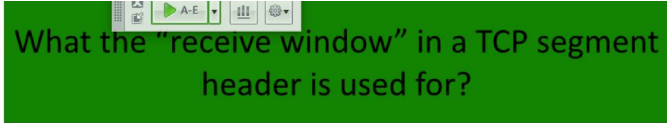
Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:41:15 PM Correct Answer(s): D	Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 0.86		
Answer	#	%	Performance Points
A	0	0%	0
B	2	9%	0
C	0	0%	0
D	19	86%	1
E	1	5%	0

</

Question 25

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:42:43 PM Correct Answer(s): C	Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 1.00		
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Answer	#	%	Performance Points
A	0	0%	0
B	0	0%	0
C	22	100%	1
D	0	0%	0
E	0	0%	0



What the "receive window" in a TCP segment header is used for?

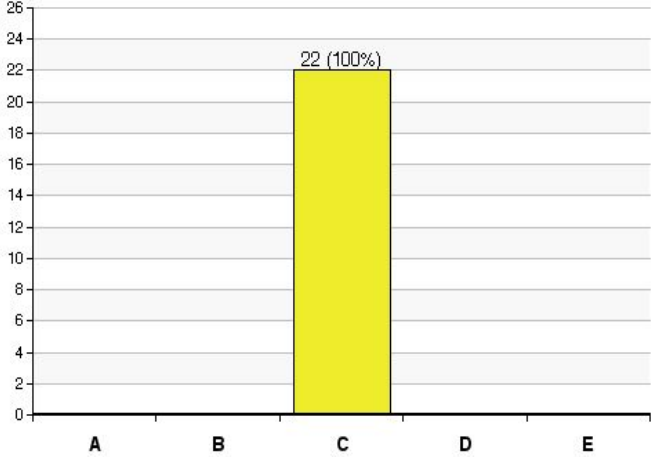
A. Pipelining

B. Size of window

C. Flow control

D. A and B

E. A, B, and C



26
24
22
20
18
16
14
12
10
8
6
4
2
0

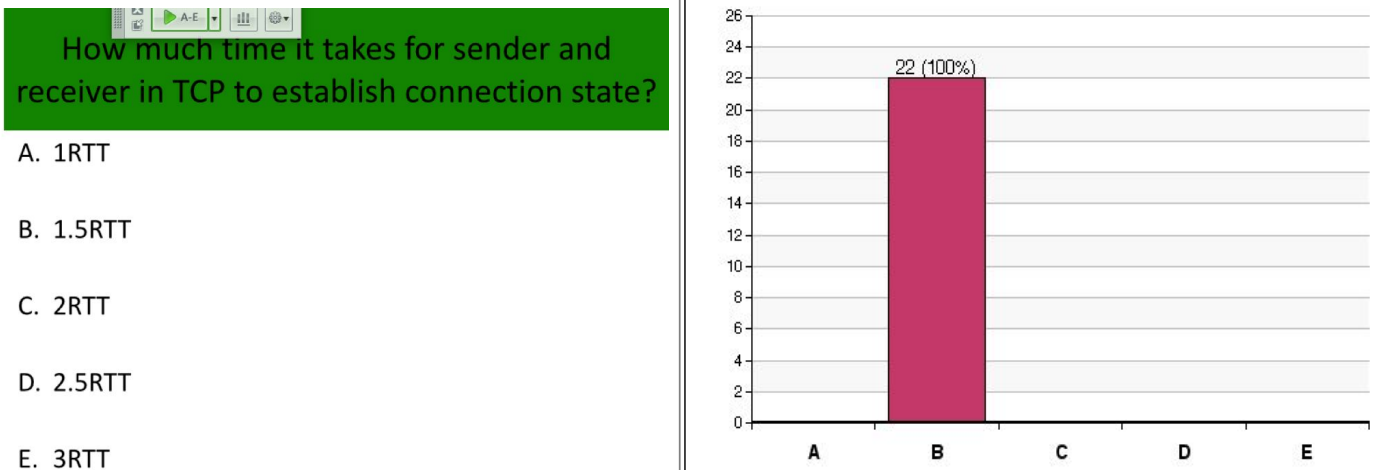
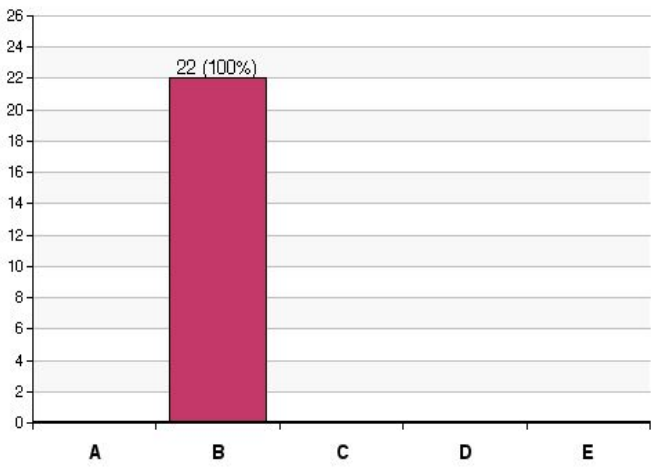
A B C D E

22 (100%)

26

Question 26

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:44:14 PM Correct Answer(s): B	Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 1.00		
Answer	#	%	Performance Points
A	0	0%	0
B	22	100%	1
C	0	0%	0

D	0	0%	0
E	0	0%	0
<div>  <p>How much time it takes for sender and receiver in TCP to establish connection state?</p> <p>A. 1RTT</p> <p>B. 1.5RTT</p> <p>C. 2RTT</p> <p>D. 2.5RTT</p> <p>E. 3RTT</p> </div> <div>  <p>22 (100%)</p> </div>			

27

Question 27

Question Type: Multiple Choice Significant Characters: 16 Time Started: 1:45:42 PM Correct Answer(s): A		Maximum Score: 1.00 Number of Responses: 22 Number Missing: 0 Class Average: 0.95	
Answer	#	%	Performance Points
A	21	95%	1
B	0	0%	0
C	0	0%	0
D	1	5%	0
E	0	0%	0

Why does congestion collapse happen?

- A. Available buffers in the switching nodes are full and packets must be dropped
- B. The switching nodes delay forwarding packets
- C. The receiver's buffer is full that cannot receive more packets
- D. A and B
- E. B and C

28

