

Assignment 1

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Course: CSE421

Section: 23

5 Answers to the ques no - 1

(a)

Source	IP	Port	Mac
192.168.1.10	161	49152	00:0c:29:00:00:00
192.168.1.10	12	80	00:0c:29:00:00:00

ste site (b) liev test-ben wif

Registered Patent

The destination port type is Registered since the packet is a request being sent from

switches PC1 to PC3. In the request, the destination port refers to either well known port or registered port not dynamic port.

2015 Ultra 2500P Motorized Ed 2190 size with
rotisserie and bowfitter and 41000 23000 rpm.

1 - Answer to the ques. no- 2

By remembering and personalizing user interaction.

Web cookies enhance user experience by storing data on user's device which help website to remember user for authorization through session token, personalization content and setting as well as analyze user activity to improve performance, making smooth interaction and fast visiting site etc.

Answer to the ques. no- 3

John's email client is using POP3 to retrieve emails. POP3 downloads email from the server to the local computer and delete them from the server by default. That's why the messages can't be retrieved by other device.

Answers to the ques. no - 4

Type cName.

If the spelling of www.google.com is wrong, it will point to the right domain if DNS is configured with a cName which will redirect it to the right domain server.

Answers to the ques. no - 5

Using acknowledgment flag and window size.

Flow control in the transport layer prevents the receiver from dropping data segments by ensuring that the sender transmits data at a rate the receiver can handle. It is done by using acknowledgments and window size so the sender stops or slows down when the receiver's window is nearly full, preventing data loss.

Answer to the ques. no-7

for single object download

(a)

Persistance,

packet size = 500 ms for sending = 15×500 ms = 750 ms

RTT = 15 ms for both sending and receiving

\therefore Single RTT = $15 + 15 = 30$ ms

Two objects download
for both send and receive = $30 \times 2 = 60$ ms

minimum RTT = $750 + 60 = 810$ ms

Total RTT = 480 ms

$$\therefore 480 = 30 + (x \times 30)$$

$$\therefore x = 15$$

$\therefore \boxed{15 \text{ object.}}$

Q. On download of 15 objects
(b) with which loss rate for download is 80%

$$\therefore \text{FTP time} = \frac{15 \times 10 \times 8}{80}$$

but download speed is 1000000 bits/s so lossless will be 15 s

but due to loss rate of 80% download will be 15 s

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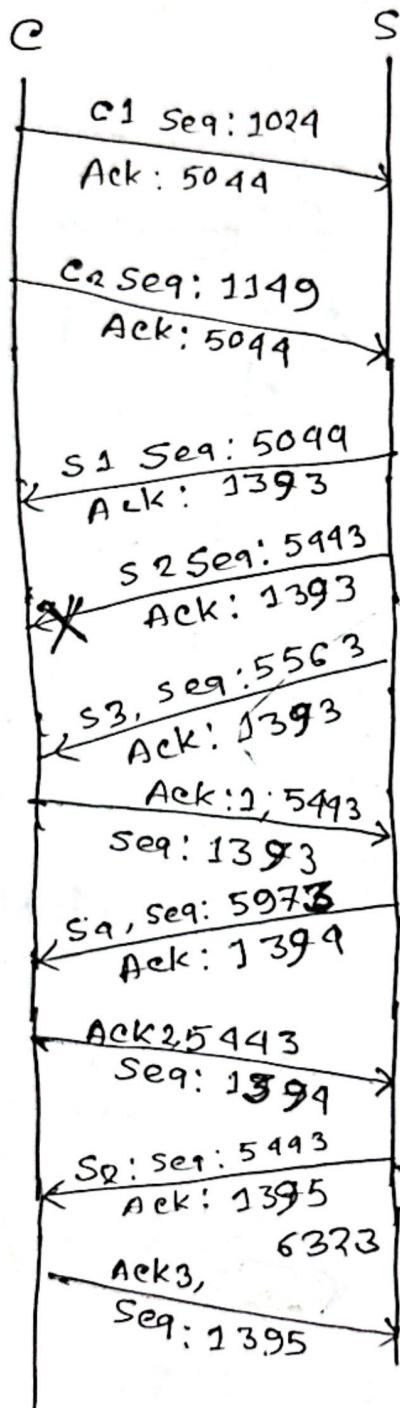
but due to loss rate of 80% download will be 15 s

Answerz to the ques. no - 8

202 (A)

(a)

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$$1024 + 125 - 1 = 1148$$

$$\begin{array}{r} 1149 \\ + 294 \\ \hline 1392 \end{array}$$

$$5099 + 399 - 1 = 5492$$

$$5443 + 920 - 1 = 5562$$

$$5563 + 410 - 1 = 5972$$

8 - 2020-09-26 - 2020-09-26

(a) seq: 5563

Ack: 1393

(b) Ack-1,

Ack: 5443

(c) Ack- 3,

Ask # 63236

$$SPP\bar{e} = t - eee + ppe$$

$$S_{\text{add.}} = L - 0.8E + 0.4F + \tilde{E}$$

QED + t → Qb + e a a