

No.:

Tuesday

No.:

NUR DIANA BMTI SUHARDI (2BIT2)

Date:

8/10/2019

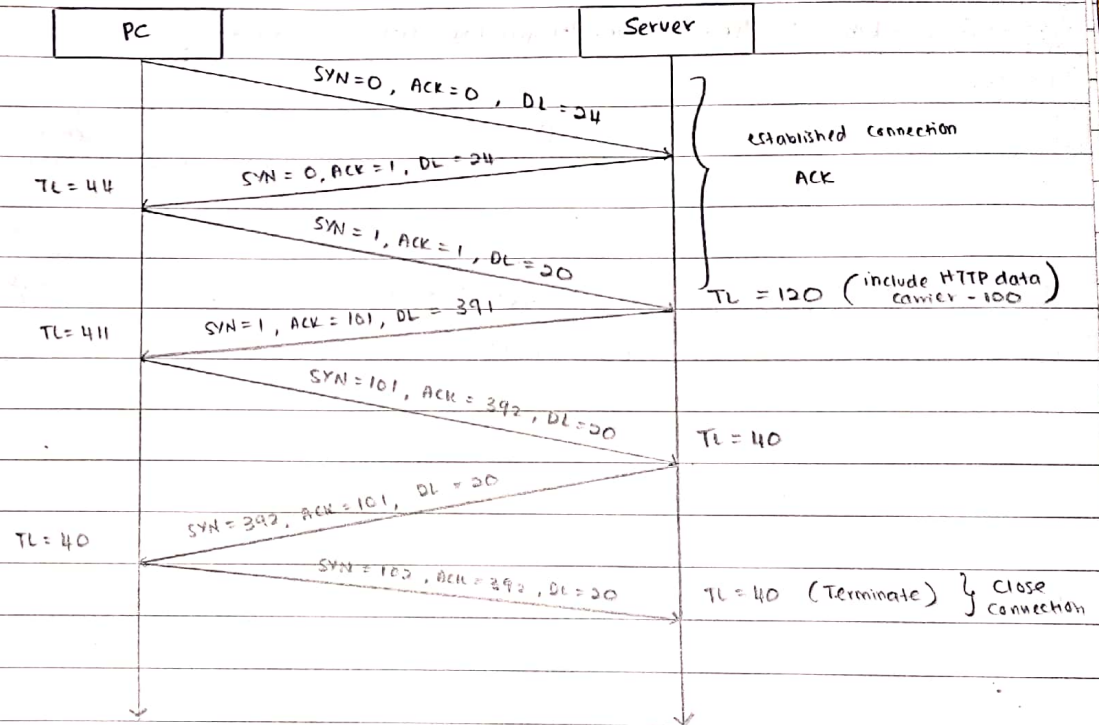
* BITS 2343 : Computer Network

Lab 4-2 = TCP Session Establishment and Termination

20 - TCP header

At Layer 4

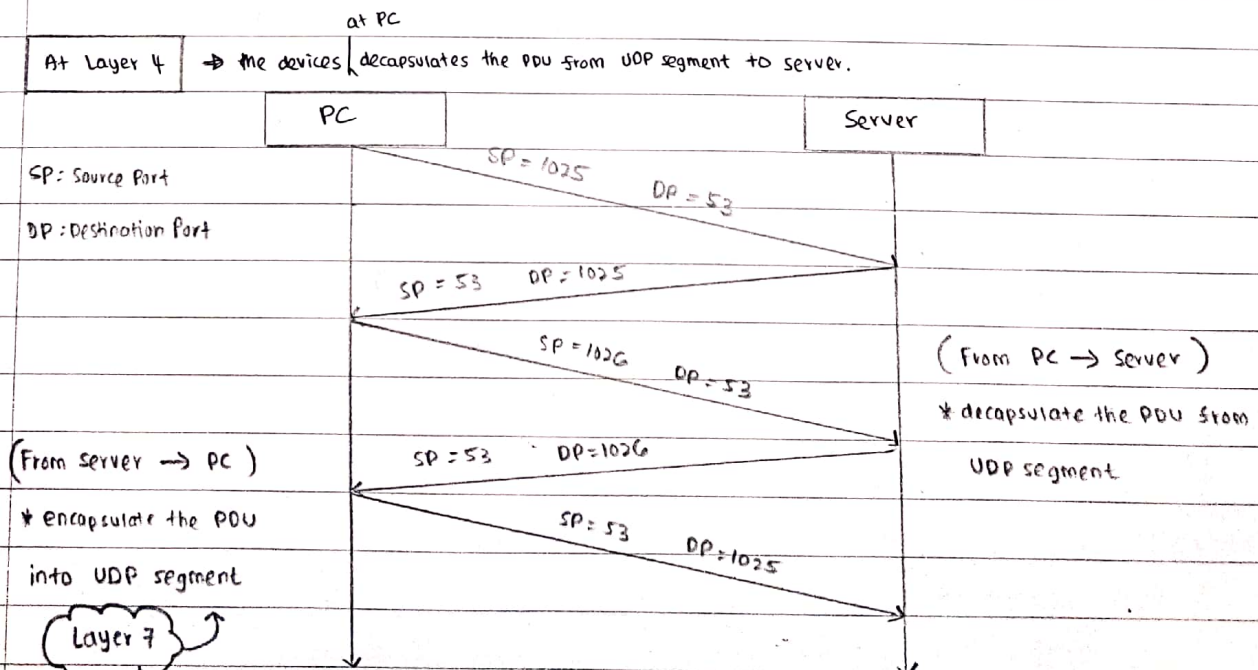
TL - 20 = DL



Lab 4-3 = UDP Operations

At Layer 4

→ the devices decapsulates the PDU from UDP segment to server.



No.:

Date:

No.:

At Layer 7

→ ① DNS server receives a DNS query

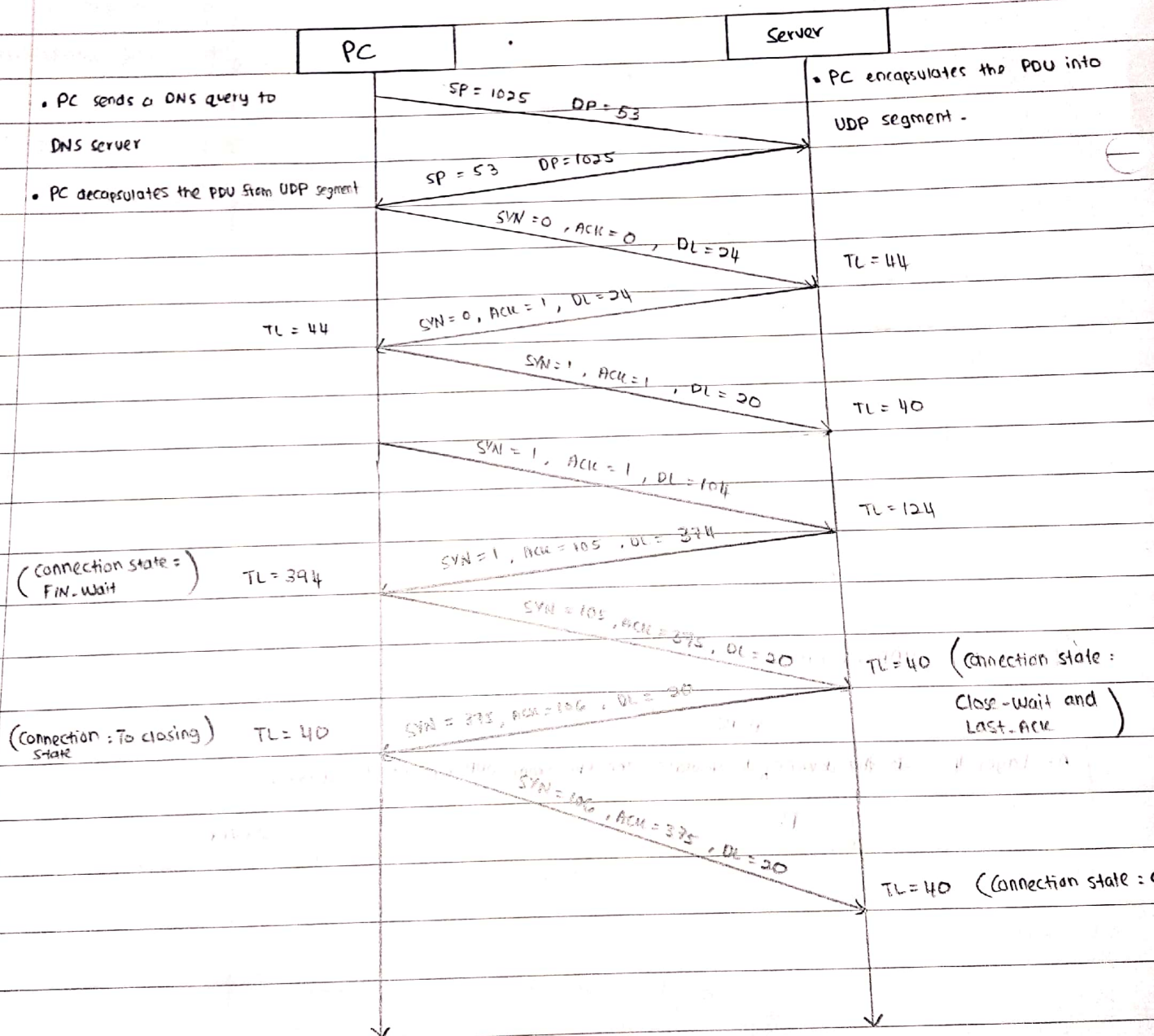
② DNS server finds a domain name and send it back a respon to PC.

③ The DNS client (PC) receives a DNS response that contain a resolved IP address for the queried domain.

SP = Source port

DP = Destination port

Lab 4-4 = Applications and Transport Layer Protocols Examination



No.:

No.:

Date:

At Layer 4

- ⇒
- ① PC decapsulates the PDU from UDP segment
 - ② Server encapsulates the PDU into UDP segment
 - ③ The connection state at PC is SYN_Received and server send TCP SYN+ACK segment
 - ④ PC receives TCP SYN+ACK segment and TCP connection is successful.
Thus, the connection state is Established.
 - ⑤ Server sends TCP FIN+ACK segment to PC and PC receives TCP FIN+ACK.
Thus, the TCP connection was disconnected.
 - ⑥ The connection state at server is Close_wait and Last_Ack.
Then, the PC sends a TCP ACK segment to server
 - ⑦ The server receives a TCP ACK segment and the connection state is closed.

At Layer 7

- ⇒
- ① The HTTP clients sends a HTTP requests to the server.
 - ② The server receives a HTTP request and sending back a HTTP reply to the client
 - ③ The HTTP client receives a HTTP reply from the server.
Then, it displays the page in the web browser.

No.:

Date:

No.:

Lab 4-5 : Analyzing the Application and Transport Layer

