

CS & IT ENGINEERING

Computer Networks



TCP & UDP

DPP- 03 (Discussion Notes)



By – Devvrat Tyagi sir

TOPICS TO BE COVERED

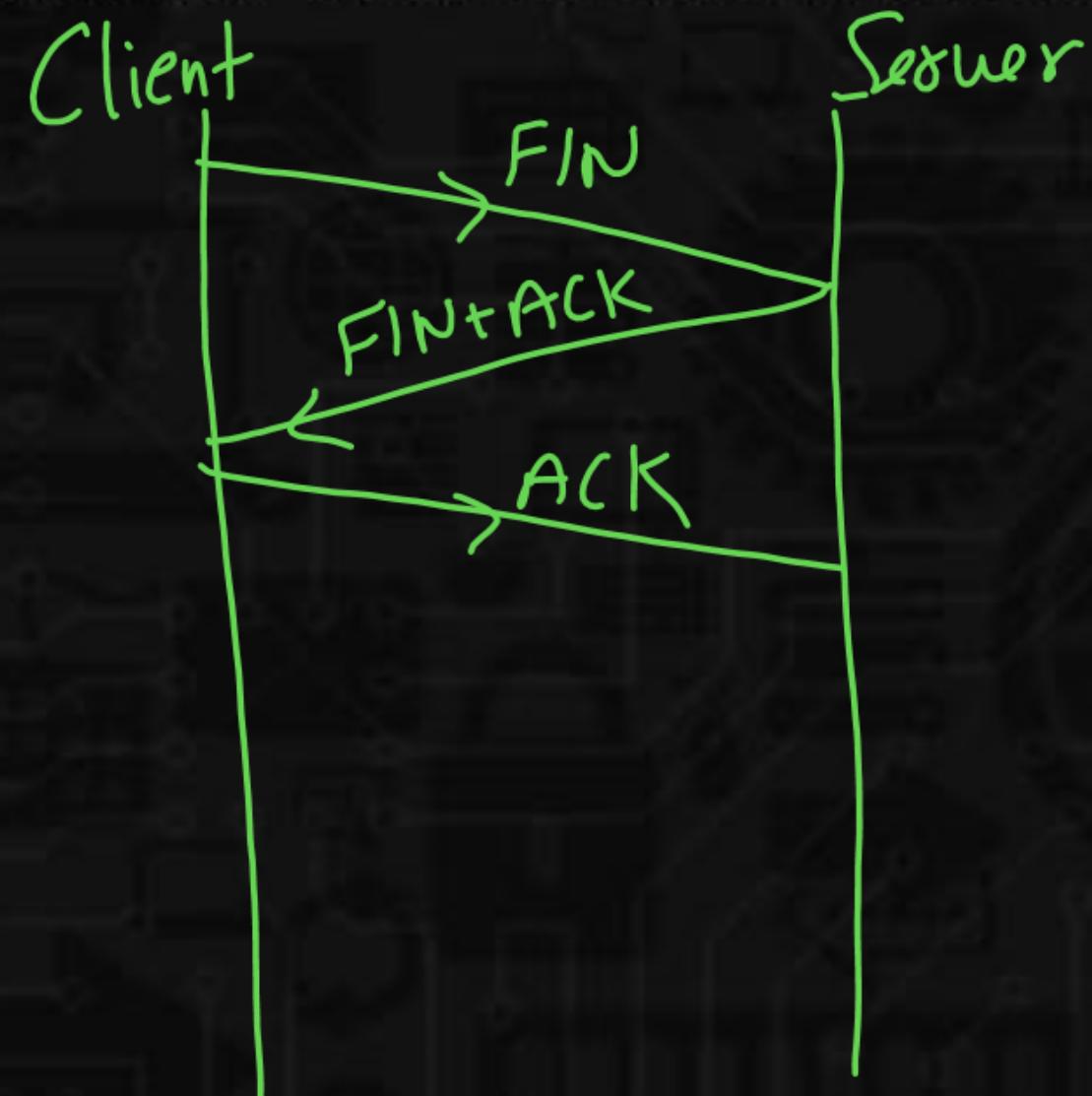
01 Question

02 Discussion

Q.1

Which of the following control filed in TCP header is used to specify whether to sender has no more data to transmit? [MCQ]

- A. FIN
- B. RST
- C. SYN
- D. PSH



Q.2

An ACK number of 500 in TCP always means.

[MCQ]

- A. 499 bytes have been successfully *means* received.
- B. 500 bytes have been successfully received.
- C. 501 bytes have been successfully received.
- D. None of the above.



Q.3

Which of the following statement(s) is/are true?

[MSQ]

P
W

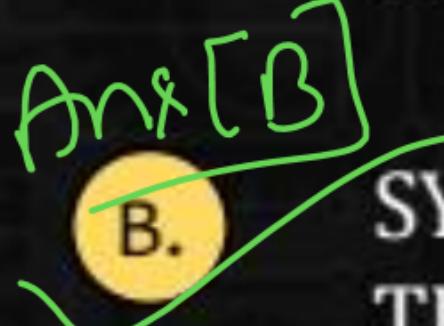
- A. A SYN segment can carry data and consumes one sequence number.
- B. A SYN segment can't carry data, but consumes one sequence number.
- C. A SYN + ACK segment can carry data, and consumes one sequence number.
- D. A SYN + ACK segment can't carry data, but consumes one sequence number.

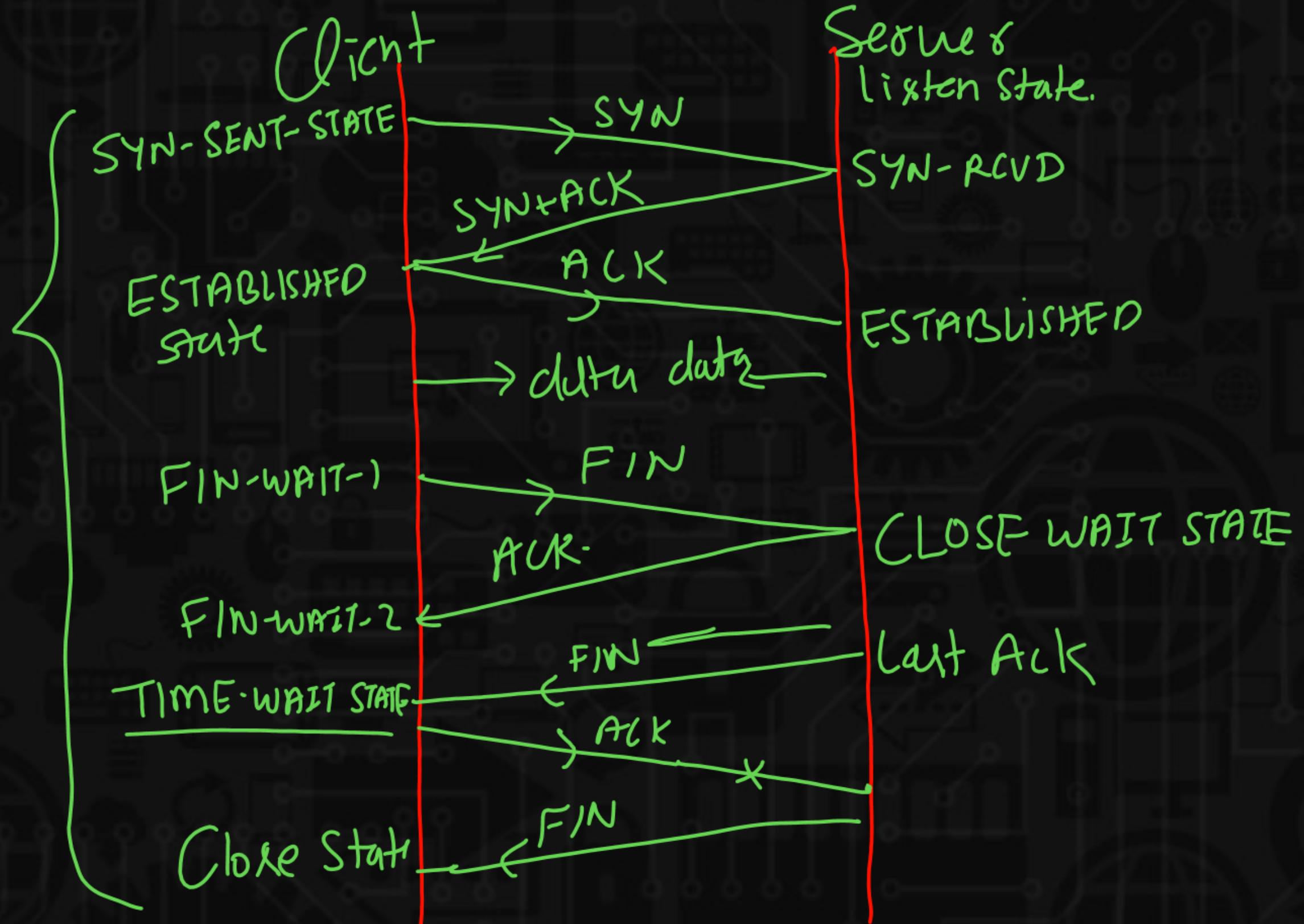
Ans [B, D]

Q.4

In TCP state transition diagram what will be the correct order of states in which the client will move while establishment the connection with TCP sequence.

[MCQ]

- A.  SYN-SENT → ESTABLISHED → FIN-WAIT 1 → FIN-WAIT 2 → LAST-ACK
- Ans [B]*  SYN-SENT → ESTABLISHED → FIN-WAIT 1 → FIN-WAIT 2 → TIME-WAIT
- C. SYN-SENT → SYN-RCVD → FIN-WAIT 1 → FIN-WAIT 2 → TIME-WAIT
- D. None of these



Q.5

Consider a TCP state transition diagram which of the following state is also called 2 MSL wait time state? (MSL = Maximum Segment Lifeline)

P
W

[MCQ]

- A. FIN- WAIT 2
- B. TIME -WAIT
- C. CLOSE - WAIT
- D. LAST- ACK

TIME-WAIT OR 2MSL
state

Q.6

Consider the following statements:

[NAT]

P
W

S₁: TCP can accept out of order segments but always sends in order acknowledgment.

S₂: TCP connection is full duplex connection for example data can be sent in both the direction.

S₃: In TCP for complete connection establishment 3-way handshaking is required.

S₄: For complete connection establishment and connection release control segment are transmitted whereas in data transfer phase data segment are transmitted.

The total number of correct statements will be 4.

