

Name :- Shah Zeb

ID# :- 14798

Subject :- Computer Communication

Class Timing :- Friday -> 2:00 to 5:00

(Q1)

(Ans)

ID = 14798

'x' is the sum of your ID = 1+4+7+9+8
x = 29

4th digit of ID = 9

5th digit of ID = 8

4th + 5th = 9 + 8 = 17

In a block of address we know the IP address and the last address is 101.10.11.29/12

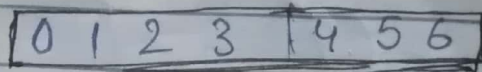
101.10.11.29

One host first address: 101.10.0.2
Network address: 101.10.0.1
Last Address: 101.10.11.797
Limited Address: 101.10.11.798

(Q3)

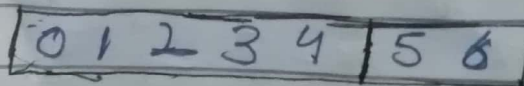
(Ans)

(A) Before A send any frames
Senders

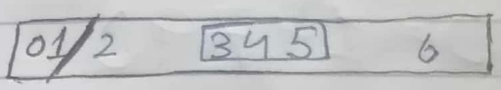


Window may be PD4 that transmitted
by Bit Window

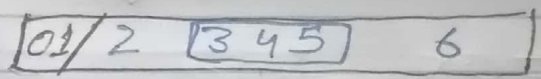
Receiver:-



(B) Sender:-
 A has shrunk its window as it has transmitted three (3) PDUs but has received ask for 2 PDUs hence it is..



Acknowledgment received for two bits
 Receiver



Now Receiver has received all data so the window remains in 4 Bit step

(C) Sender:-

A horizontal box representing a window. It is divided into three sections: the first section contains '01234/5', the second section contains '670', and the third section contains '1'.

Receiver:-

A horizontal box representing a window. It is divided into three sections: the first section contains '012345', the second section contains '67', and the third section contains '0'.

Acknowledgment received for 3 Bit

Now Window size

ID = 14788
 by formula

ID last / 2

ID last = 8 so $8/2 = 4$

Window size = 4

(Q2)

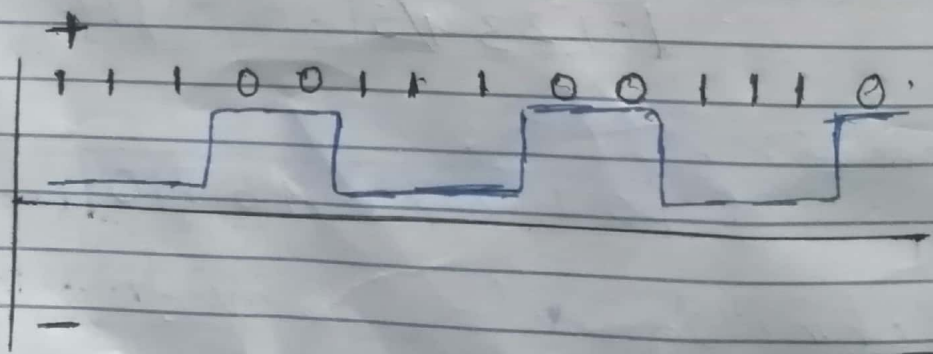
(Ans)

$$ID = 14798$$

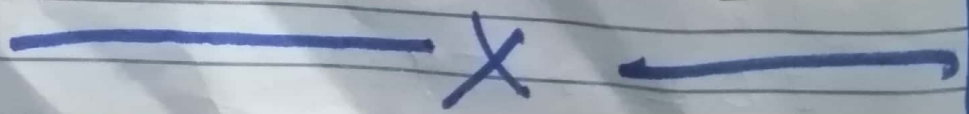
Now Convert the ID (14798) into Binary.

$$14798 = 11100111001110$$

Now "NRZ" - scheme using the Binary Notation. ✓



0	=	+
1	=	-



Q4

(Ans)

The ISP needs to distribute these addresses starting with 16 - (x) (ID₃₊₄) 0/16

(a) First group 16 customers needs 64 addresses