

①

NAME	Saadiah Lehman
ID	14293
Dept	BS(SE)

Q3

Ans:- Solution

The bit rate can be calculated
 $2 \times 4000 \times 16 = 128 \text{ kbps}$

Q1

Ans:-

(A) Given data

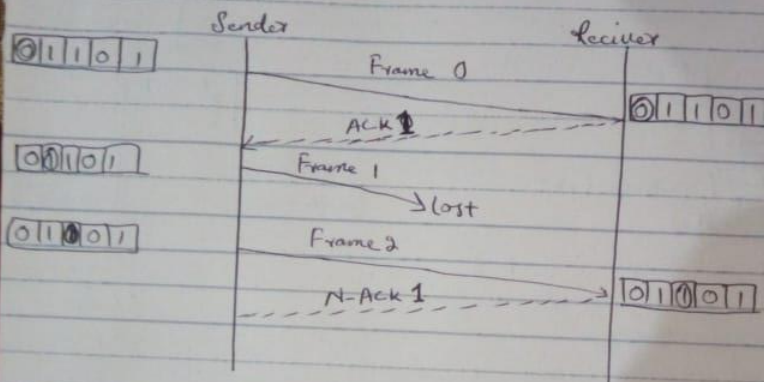
$$N = 200$$

ID 14393

(2)

Q2

Ans



Lost of Data Frames

- Out-of-Sequence delivery is permitted, but out-of-Sequence Ack is not.
- When a lost frame is detected, NAK is sent.
- If lost frame is lost, then receiver does nothing.

ID 14293

③

Q4

Ans:-

Group 1:-

1st Customer

$$10.100.10.0/24 \Rightarrow 10.100.10.255/24$$

2nd //

$$10.100.11.0/24 \Rightarrow 10.100.11.255/24$$

64th //

$$10.100.73.0/24 \Rightarrow 10.100.73.255/24$$

Group 2

1st Customer

$$10.100.74.0/25 \Rightarrow 10.100.74.255/25$$

128th Customer

$$10.100.137.128/25 \Rightarrow 10.100.137.255/25$$

Group 3

1st Customer

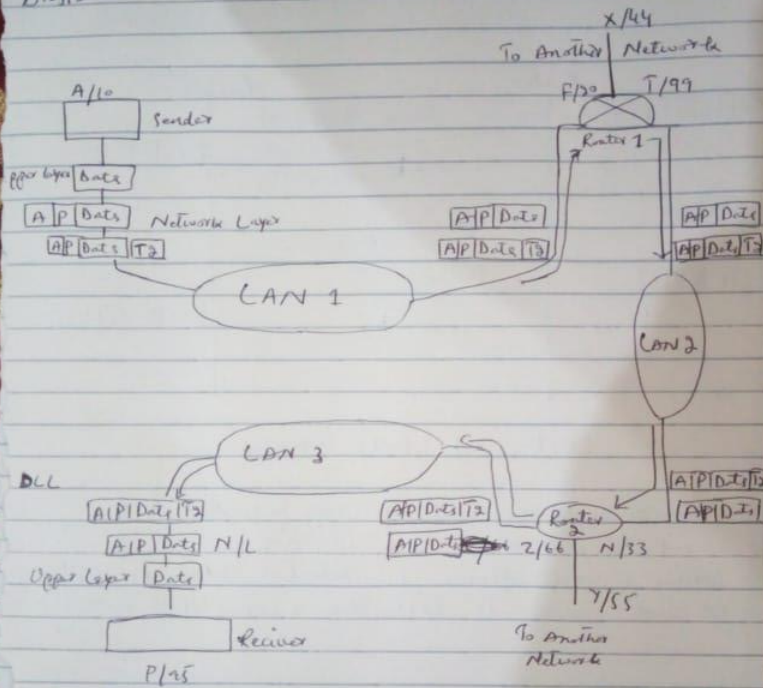
$$10.100.138.0/26 \Rightarrow 10.100.138.31/26$$

128th Customer

$$10.100.169. // // //$$

Name Shoaib Khan
ID 14993
(4)

Q5
Ans:-



In this diagram we don't have a physical Address of Sender, Router 1, Router 2 & Receiver.
→ The Physical Address of Router will be changed when it pass a data.