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Subj:- Computer communication
and Network

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Final term Paper

9th semester

IP: 12851

①

In a block address we equate the top address of one host is $101.10.11x$

IP = ?

IP = $101.10.11.12851$

= $101.10.11.12852$

= $101.10.11.12853$

$101.10.11.12854$

$101.10.11.12855$

$101.10.11.12856$

$101.10.11.12857$

$101.10.11.12858$

$101.10.11.12859$

$101.10.11.12860$

$101.10.11.12861$

$101.10.11.12862$

$101.10.11.12863$

$101.10.11.12864$

$101.10.11.12865$

of 4th and 5th

(2)

12851

12854 + 12855

= 25,709

Performing and operation

101.10.11.27

255.0.0.0

101.10.0.0

IP address = 101.0.0.0

limited broadcast address

* As limited broadcast does not change route to another and send message to limited people. In organization either All over or all go.

limited broadcast address

= 255.255.255.255

or
limited broadcast address

= 0.0.0.0

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Take your Roll No as decimal
notation now convert it into
Binary notation. Draw the
group's of the NRZ-C
Scheme using last
Signal has been positive.

12851 (change into binary)

| | | |
|---|--------|-------|
| 2 | 12851 | R.W |
| 2 | 6425-1 | 12851 |
| 2 | 3212-1 | 6425 |
| 2 | 1606-0 | 3212 |
| 2 | 803-0 | 1606 |
| 2 | 401-0 | 803 |
| 2 | 200-0 | 401 |
| 2 | 100-0 | 200 |
| 2 | 50-0 | 100 |
| 2 | 25-0 | 50 |
| 2 | 12-1 | 25 |
| 2 | 6-1 | 12 |
| 2 | 3-1 | 6 |
| 2 | 1-1 | 3 |
| 2 | 0-0 | 1 |

P.T.O

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12851

$$\begin{array}{r} 2 \overline{) 803-0} \\ \underline{2} \\ 603 \end{array}$$

$$\begin{array}{r} 2 \overline{) 401-0} \\ \underline{2} \\ 201 \end{array}$$

$$\begin{array}{r} 2 \overline{) 200-1} \\ \underline{2} \\ 000-1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 100-0} \\ \underline{2} \\ 000-0 \end{array}$$

$$\begin{array}{r} 2 \overline{) 50-0} \\ \underline{2} \\ 30-0 \end{array}$$

$$\begin{array}{r} 2 \overline{) 25-0} \\ \underline{2} \\ 05-0 \end{array}$$

$$\begin{array}{r} 2 \overline{) 12-1} \\ \underline{2} \\ 02-1 \end{array}$$

$$\begin{array}{r} 2 \overline{) 6-0} \\ \underline{2} \\ 04-0 \end{array}$$

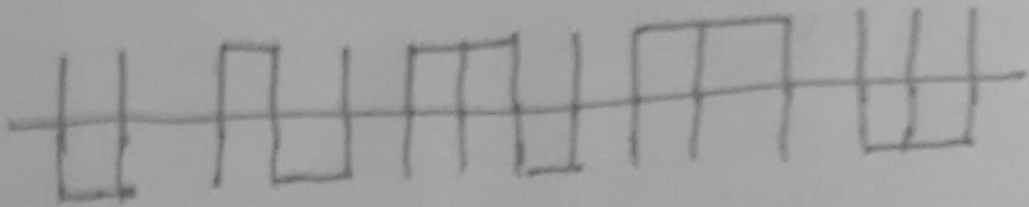
$$\begin{array}{r} 2 \overline{) 3-0} \\ \underline{2} \\ 01-0 \end{array}$$

$$\begin{array}{r} 2 \overline{) 1-1} \\ \underline{2} \\ 01-1 \end{array}$$

$$(12851)_{10} = {}_2(110010001000111)_2$$

3) 12851

1 1 0 0 1 0 0 0 1 0 0 0 1 1 1



(6)

12881

Q4) An ISP is granted of address 190. (x). (100) ...

first group 16 character

64 addresses ($2^6 = 64$)

$$32 \cdot 6 = 26$$

usable address

total no of addresses is 64

$$\text{Mask id} = 190.28.0$$

$$\text{Network id} = 190.100.128.51$$

$$\text{first id} = 190.100.129.52$$

$$\text{last id} = 190.100.130.53$$

$$\text{total } 16 \times 64 = 1024$$

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12851

b) $5(2^5 = 32)$

$32 \cdot 5 = 27$

usable address

total No of addresses.

Mask id . 160.21.7.0/16

Network id 160.21.7.32/27

160.21.7.31/26

total $16 \times 64 = 1088$

Ans

64 customs

16 aduers

total no of aduers

Mask id 100.21.7.0/32

Network id 160.21.7.5 /24

Last network

160.21.7.31/15

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Sender

~~0 1 2 3 4 5 / 6 / 7 0 1~~

~~Receiver ACK received~~

~~by one bit.~~

~~0 1 2 3 4 5 / 6 / 7 0 1~~

Q3 Before A send only frames sender

Ans:- Sender:-

0 1 2 3 4 5 6

window of PDU that may be transmitted = 4 bit window

Receiver:-

0 1 2 3 4 5 6

Ans: b: After A sends 0, 1, 2, 3, 4 and receives acknowledgment from B for 0, 1, 2

Sender:- A has shrunk its

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window as it has transmitted 5 PDUs but has received ack for 3 PDUs hence it is keeping copy of one PDU.

0 1 2 3 4 5 6

Acknowledgment received for two bits.

Receiver:-

0 1 2 3 4 5 6

Receiver has received all data hence the window remain 4 bit size

Answer C:-

Sender:-

0 1 2 3 4 5 6 7 2 0 1

Receiver:-

Ack received for one bit.

0 1 2 3 4 5 6 7 0 1

END of Paper