NAME: FAIZULLAH KHAN

STUDENT ID: 14840

PAPER: NETWORKING

SECTION: B

DEPARTEMENT: SOFTWARE

ENGINEERING

DATE-24-06-2020

14840

Q1: In a block of adverses, we know the 1P advess of one host is 101.10.11. X/1045. What is the first advess (network advess) and the last advess (limited broadcast advess) in the block ?

<u> Lol:</u>

10 = 14840 X = 17 4m = 45m = 0

= 4th 5th => 4+0=4

In a block of advessess, we know the IP address is 101.10.11.1714.

Convert into binary numbers.
1100/01/1010/101/10001/100

First advess

17-4=13

Convert last 13 bits to 0

1100101 1010 000 0000 000

Now convert this into decimal

101.10.0.010

last address. Cowert right most bit into 1 1100101 1010 0101 1010011 101.10.11.17 17 22: Take your Roll No as decimal notation, now Convert it to Binary notation. Draw the graph of the NRIZ-L scheme using the binary notation of your roll no as data stream, assuming that the last signal level has

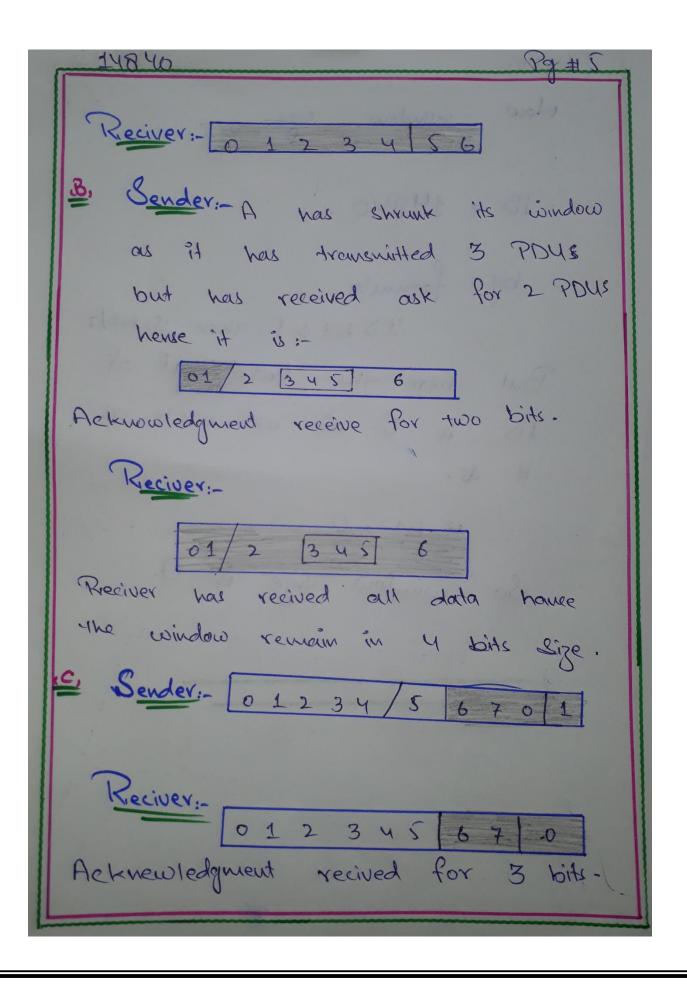
Sol: Roll to = 14840

How to convert into binary

numbers.

		19#12
BALLET THIS AT ADDING BUILDING	7. 19.00	
THE SO WHICH WORKS TO SHE	2	14840
	2	7420-0
14840=11100111111000	2	3710-0
	_2	1855-0
a war puttinent of	2	927-1
And were the contract of the c	2	436-1
productly with not whom	_2	231-1
The second secon	2	115-1
Common to the	2	57 - 1
	2	28 - 1
	2	14-0
NRZ-L Scheme	2	7-0
Graph:	2	3 - 1
Graysk:	100	1 - 1
WINCH SHI John T	2.919	
0 0		0 0 0
6 1 1 1 1 1 1 1	111	No. of the last of
	++	and in the
The state of the state of		
The property and the second		

Q3. Two neighbouring nodes (A and B) use a sliding - window protocol with a 3-bit Sequence number. As the ARQ mechanism go-back-N is used with a window Size of 1D last. Assuming A is transmitting and B is reciving. Show the window positions from B for 0, 1 and 2 for the following Succession of events: * Before A sends any frames. * After A sends frames 0,1,2,3,4 and receives acknowledgment from B for 0, 1 and 2. After A Sends frames 5,6 and B acknowledges 5 and the ACK is received by A. Sol: Before A sends any Frames: Sender: 0 123 456 Mindow PDU that may be transmitted 4 bits window.



Now Mindow Size. ID = 14840. by formula. ID last > 5 then 10 last /2 But here the last digit of ID is 0 se we write as it as. 10 loss = 0 So window size is O.

QY. A. TED is orrowated as block of

CLY: An ISP is granted a block of adolvesses Starting with 160. (X). (10344)
0/16.

The ISP needs to distribute these addresses to three groups of customers as follows:

Design the Bub-blocks and find out how many addresses are still avoidable after these allocations.

* A. The first group has 16 customers; each needs 64 addresses.

Sol- Address = 160. (x). (ID 3+4). 0/16

D(x) = 14840Sum of D = 17

2D 3+4 = 12

160.17.12.0/16

14840 The first group has 16 comstone each customers need 164 orddress-First group: For this group each customer needs by address. This means most 6 (log2 by) but one needed to define each host. The prefix is she 32-6=26 First customer= 160-17.12.0/26 2nd customer = 160.17.12.1/26 64 customers = 100,17,12,63/26 = 160.17.12-255/26 Total = 16x 64 = 1024 B. The second group has 64 customers each need 32 address.

P9# 9. 14840 Customer: 160, 17-12,0/28 = 160.17.12.255/28 2nd Customer: 160.17-12-198 = 160.17.12.254/28 16 customer = 160.17-12.15/28 = 160.17-12.240/28 Total = 16 x 64 = 1024