

ID:

14601

Name:

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Subject:

Computer and Communication  
Networks.

Section:

A

Semester:

4<sup>th</sup> BS (SE)

Date:

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ID 14601

## Question no '1'

Answer

$$ID = 14601$$

$$X = 12$$

$$4^{th} = 0$$

$$5^{th} = 1$$

$$0 + 1 = 1$$

In block of addresses we know  
The IP address is 101.10.11.12/1

On host first address 101.10.0.2

Network address 101.10.0.1

Last address 101.10.11.600

Limited address 101.10.11.601

ID 14601

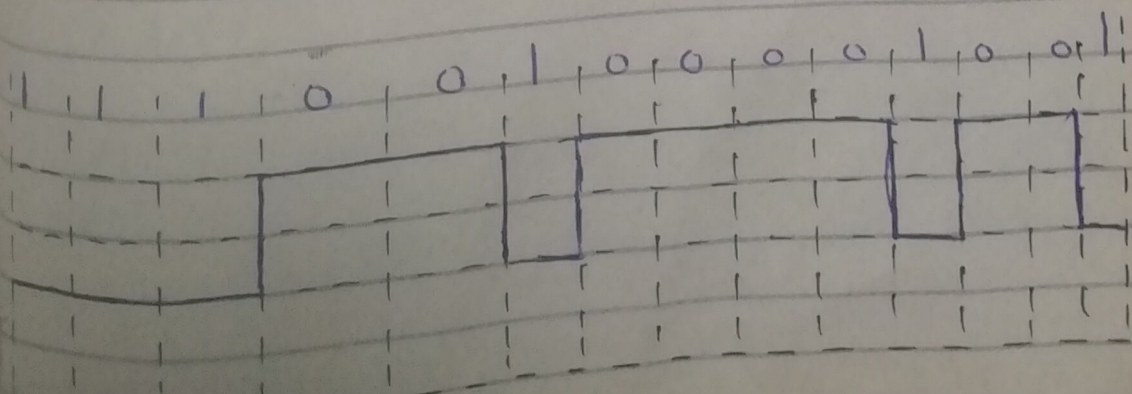
## Question no 2

Decimal notation convert to  
Binary notation.

2	14601	
2	7300	— 1
2	3650	— 0
2	1825	— 0
2	912	— 1
2	456	— 0
2	228	— 0
2	114	— 0
2	57	— 0
2	28	— 1
2	14	— 0
2	7	— 0
2	3	— 1
	1	— 1

$$14601 = 11100100001001$$

NRZ-L Graph



ID = 14601

Question no. 3

ID = 14601

Last digit = 1

Window size = 1

→ Before A send any frame

Sender:

0 1 2 3 4 5 6 7

Window of PDU may transmitted = 1 bit window

Receiver:

0 1 2 3 4 5 6 7

→ After A sends frames 0, 1, 2, 3, 4 and B receive knowledge from B for 0, 1 & 2.

Sender:

A has shows its window as it transmitted 5 PDU's are received 3 PDU's hence keeping 1 PDU.

0 1 / 3 4 5 6 7

ID : 14601

Receiver:

0 1 2 / 3 4 5 6 7

Receiver has received all its  
data hence window  
remains 1 bit size

Sender:

0 1 2 3 4 5 / 6 7 0 1

Receiver:

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

Received by.

ID: 14601

Question no '4'

Answer.

$$ID = 14601$$

$$X = 1 + 4 + 6 + 0 + 1 = 12$$

$$ID_{3+4} = 6 + 0 = 6$$

IP we have

$$160 \cdot X \cdot D_{(3+4)} \cdot 0 / 16$$
$$= 160 \cdot 12 \cdot 6 \cdot 0 / 16$$

Total no of address  
located to IP

$$\frac{18-16}{2} = 4$$

Ans.