Bài Tập Ôn Cuối Kì

Bài 1. Phương pháp CRC

1. Cho chuỗi bit dữ liệu 1001010101, chuỗi bit đa thức sinh $G(x) = x^5 + x^4 + x^2 + 1$. Tính chuỗi bit được truyền đi trên mạng

$x^5 + x^4 + x^2 + 1 = 1x^5 + 1x^4 + 0x^3 + 1x^2 + 0x + 1x^0$

$= 110101$

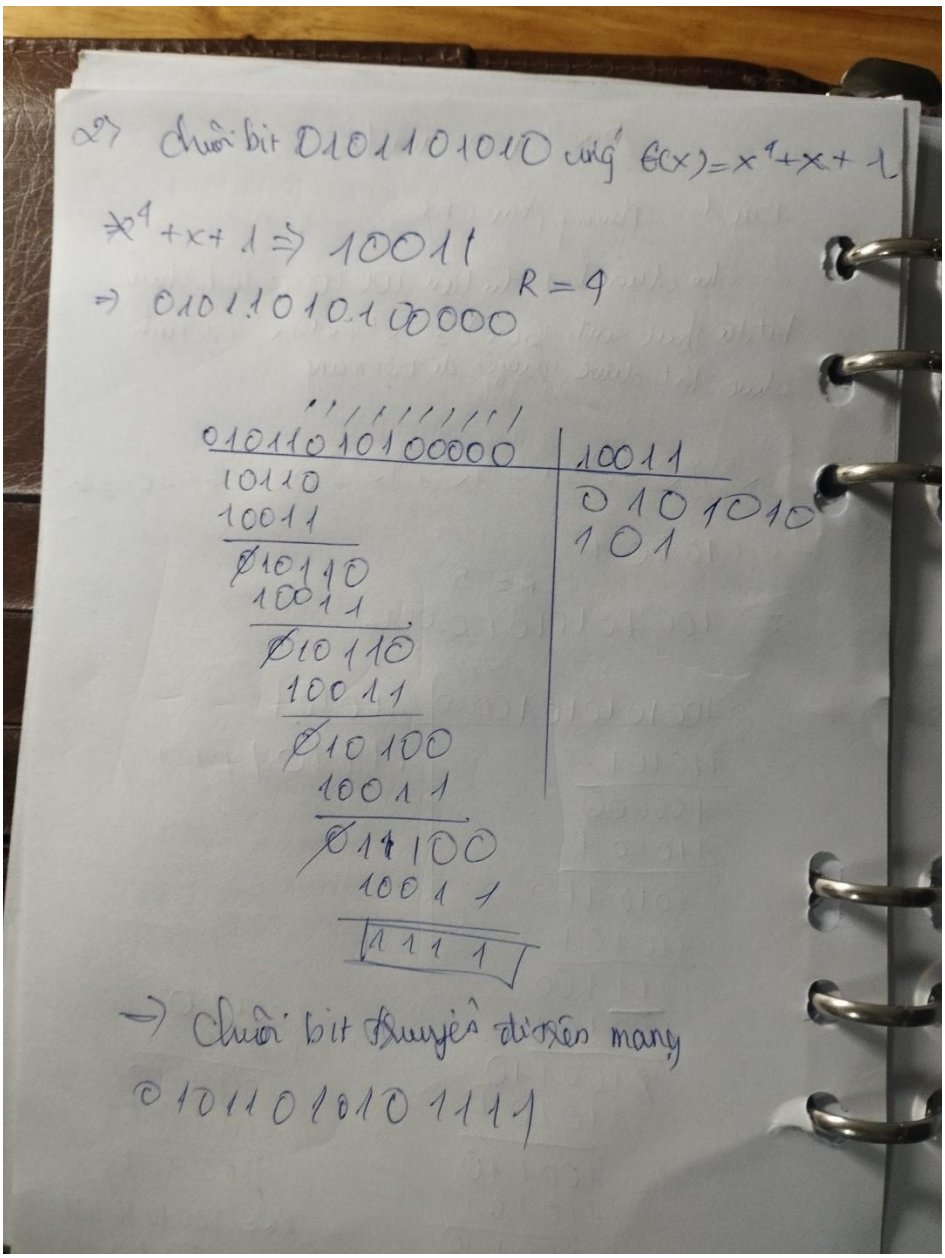
R = 5

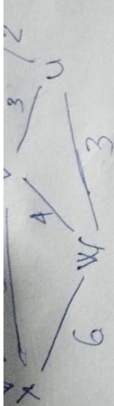
⇒ 1001010101 00000.

```
100101010100000 | 110101
110101          | 1111011111
 100000
 110101
  101011
  110101
   111100
   110101
    0100110
     110101
     100110
     110101
      100110
      110101
      100110
```

```
100110
110101
 100110
 110101
  10011
```

⇒ KQ = 1001010101 10011

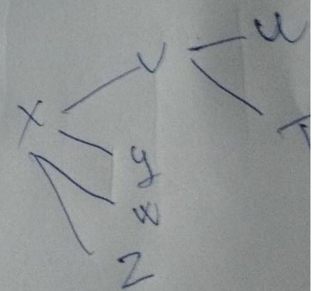

a) Chuỗi bit 0101101010 với G(x) = x^4 + x + 1
x^4 + x + 1 ⇒ 10011
R = 4
⇒ 0101101010 0000
0101101010 0000 | 10011
10110 | 01011010
10011 | 101
00110
10011
00101
10011
00110
10011
00100
10011
00111
10011
0111
→ Chuỗi bit được gửi đi trên mạng
0101101010 1111



STT		y	z	T	V	W	U
1.	x	6x	8x	∞	3x	6x	∞
	xV	6x	8x	7V	—	6x	6V
	xVy	—	8x	7V	—	6x	6V
	xVyu	—	8x	7V	—	6x	—
	xVyu	—	8x	7V	—	6x	—
	xVyuW	—	8x	7V	—	—	—
	xVyuWT	—	8x	—	—	—	—
	xVyuWT.Z	—	—	—	—	—	—

Dest	
V	x
y	x
u	V x
W	x
T	V x
Z	x

→



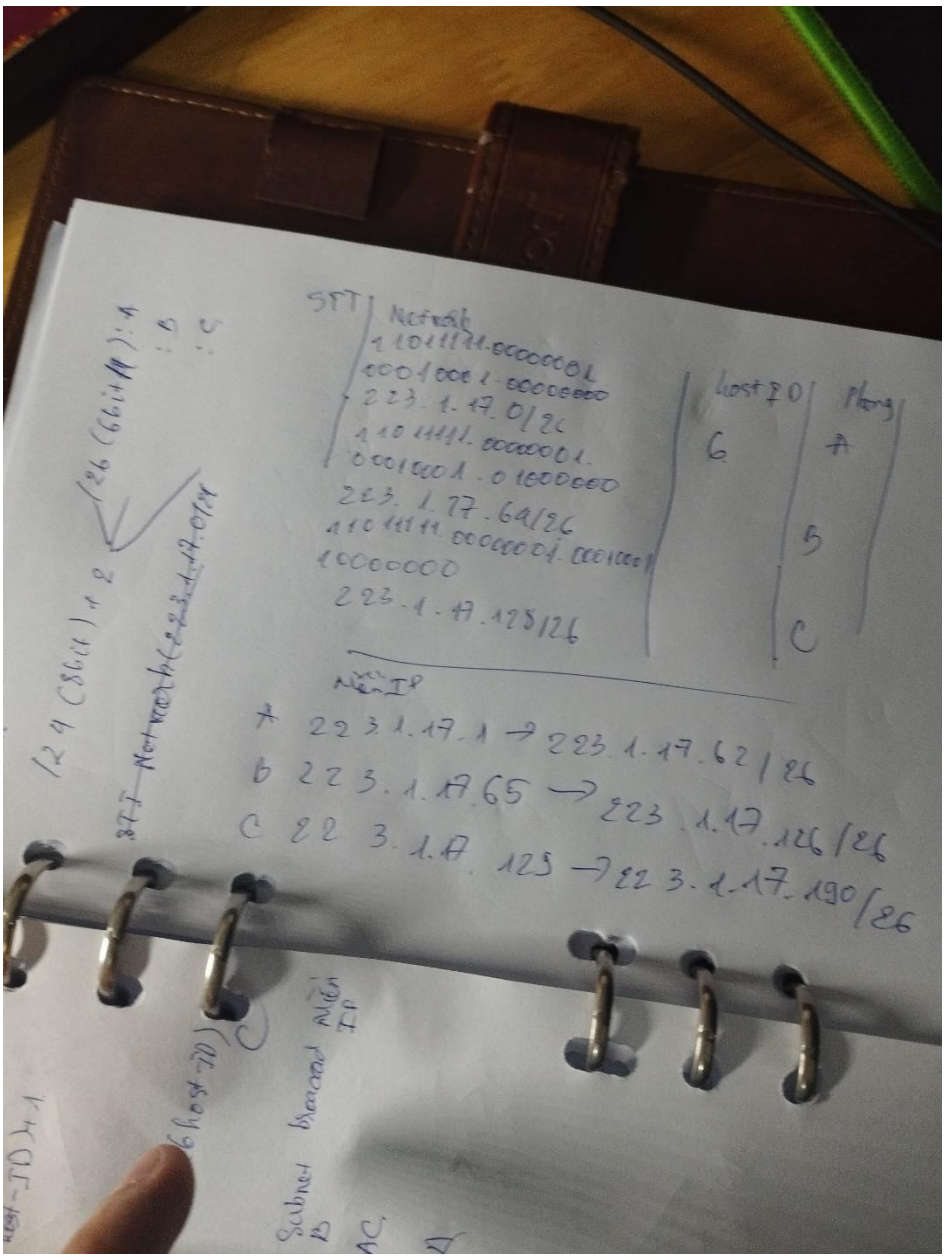
Bài 3.

223.1.17.0/24 +1 → 1

- /25 (7 host-ID) : B
- /25 (7 host-ID) + 1.
  - 2
    - /26 (6host-ID) : A
    - /26 (6 host-ID) C

/26.

STT	Netwœk	hostID	Subnet	broacad	Miền IP
1	11011111.00000001 00010001.00000000 223.1.17.0/25	7	B AC.		
2	11011111. 00000001 00010001.10000000 223.1.17.128/26	6	A		
	11011111.00000001. 00010000 1.11000000 223.1.17.192/26		C.		


SFT
Network
223.1.17.0/26
223.1.17.64/26
223.1.17.128/26
Host ID
Name
A
B
C
New IP
A 223.1.17.1 → 223.1.17.62/26
B 223.1.17.65 → 223.1.17.126/26
C 223.1.17.125 → 223.1.17.190/26