

# CS & IT ENGINEERING

## Computer Network

Introduction to Subnetting

DPP 03

(Discussion Notes)



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# TOPICS TO BE COVERED

01 Question

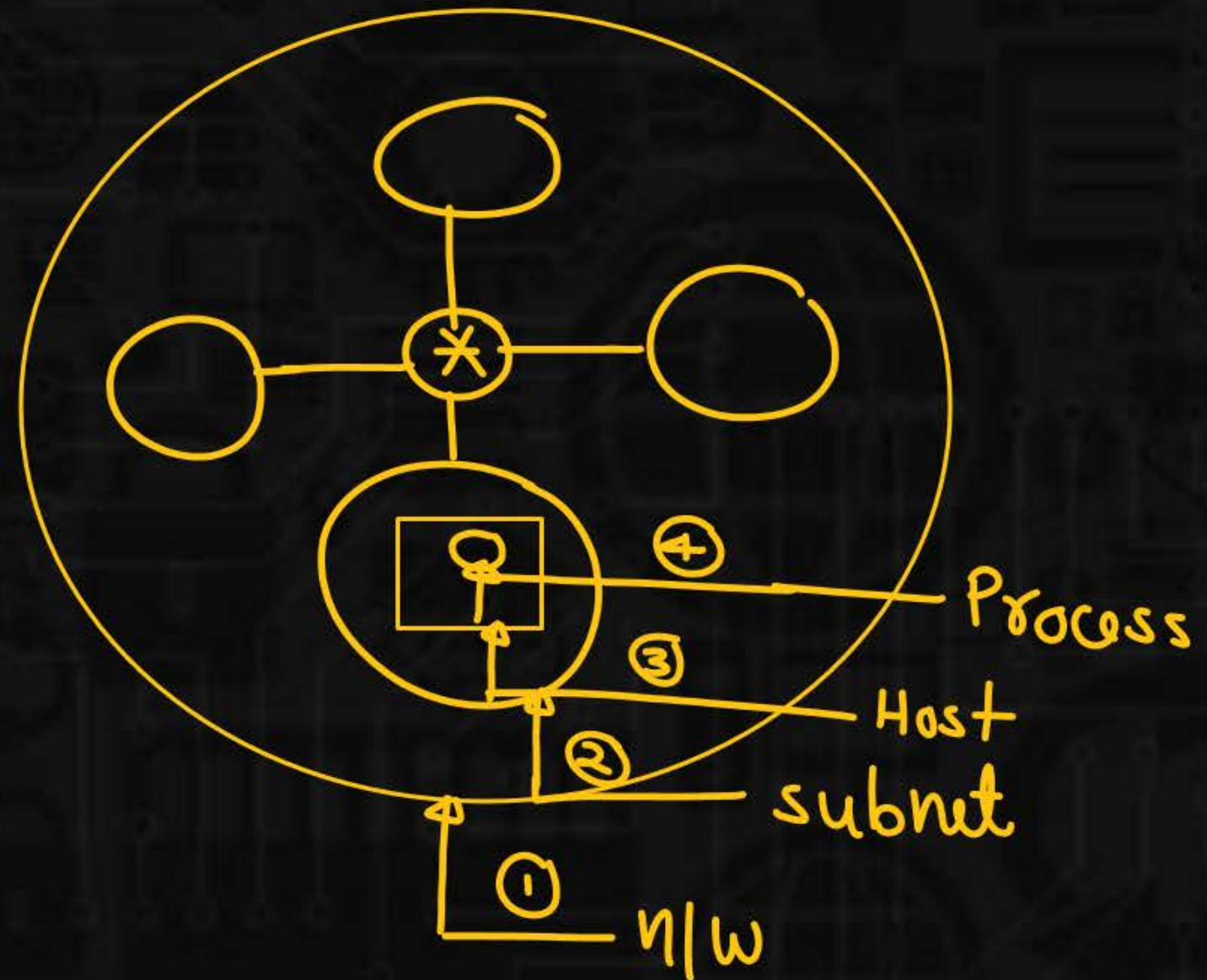
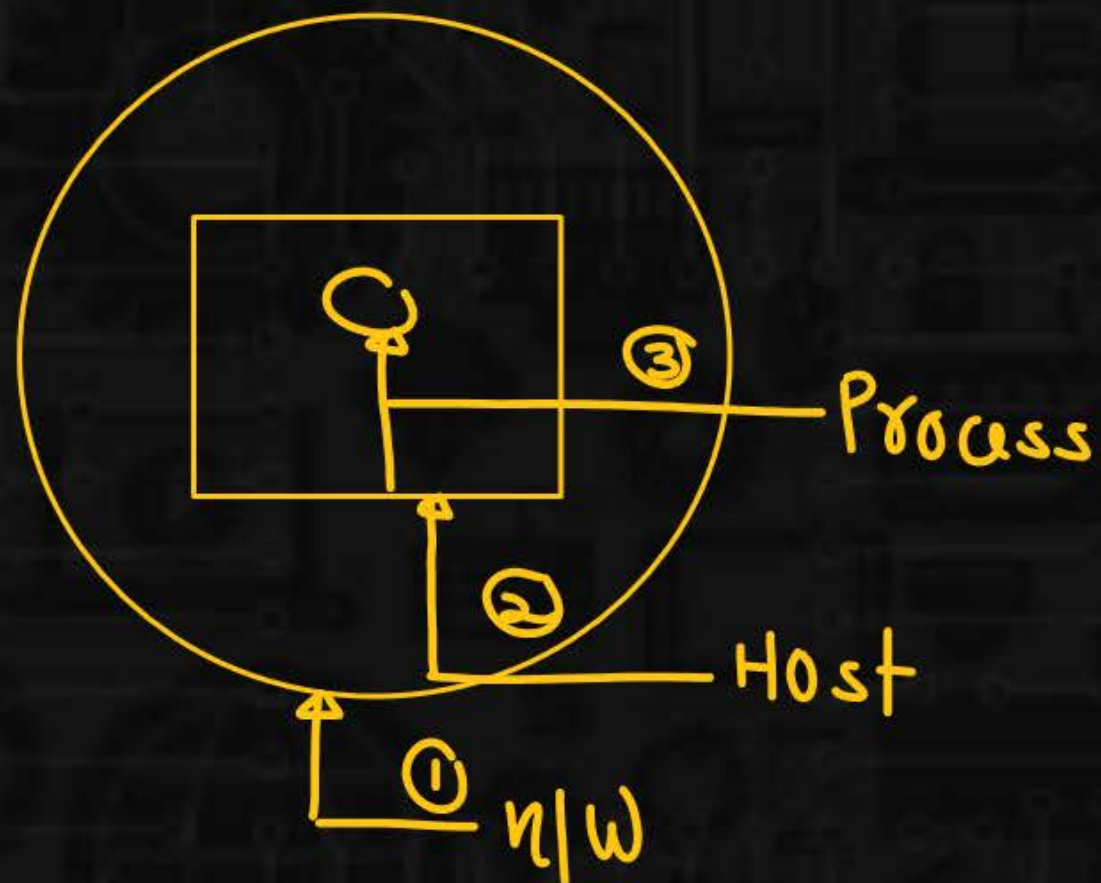
02 Discussion



Q.1

After subnetting how many steps are needed to communicate with process? 4

[NAT]



Q.2

[MCQ]



Consider the following statements:

$S_1$ : Subnetting was devised to divide a large block (Network) into smaller ones.

$S_2$ : Subnetting was devised to combine several class C blocks into a large block.

Which of the following is/are correct?

☒ A.

$S_1$  only

☐ B.

$S_2$  only

☐ C.

Both  $S_1$  and  $S_2$

☐ D.

None of these



Q.3

[MCQ]



Consider the following statements:

- (T)  $S_1$ : In Subnetting subnet bits are borrowed from host ID part.
- (F)  $S_2$ : In Subnetting subnet bits are borrowed either from HID part or from NID part.
- (T)  $S_3$ : Subnetting provides security to one network from another network.

Which of the following is/are correct?

- A.  $S_1$  and  $S_2$
- ☒ B.  $S_1$  and  $S_3$
- C.  $S_2$  and  $S_3$
- D. All are correct

Q.4

Which of the following is/are correct statement?

[MSQ]



☒ A.

First subnet ID and entire network ID is always same.

☐ B.

Last subnet ID and entire network ID is always same.

☐ C.

DBA of the first subnet and DBA of entire network is always same.

☒ D.

DBA of the last subnet and DBA of entire network is always same.

(A, D)



Q.5

Consider a subnet mask 255. 255.255.192, the number of subnets is/are possible: [MSQ]



- ☒ A.  $2^{18}$
- ☐ B.  $2^{18} - 2$
- ☒ C.  $2^2$
- ☐ D.  $2^7 - 2$

A, C

class A: 255.0.0.0

class B: 255.255.0.0

class C: 255.255.255.0

||||||| . ||||| . ||||| . ||000000

class A

class B

class C

