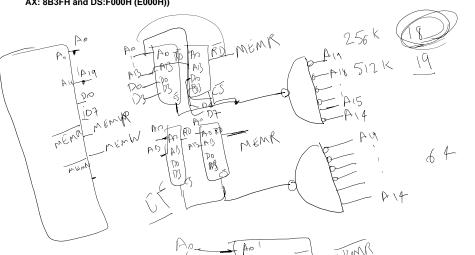
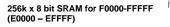
## 1. What is the problem with partial decoding?

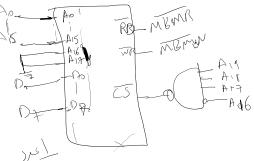
- 2. There are four types of memory modules:
  - . 16k x 4 bit ROM for 28000-2FFFF (08000 0FFFF)
  - . 256k x 8 bit SRAM for F0000-FFFFF (E0000 EFFFF)
  - . 512k x 2 bit SRAM for 00000-1FFFF (20000 3FFFF)
  - . 64K x 1bit \$RAM for 60000 7FFFF (40000 5FFFF)
  - 1. How many modules are required from each type for an 8088 processor.
  - 2. Design the circuit.

## 3. for **8086**:

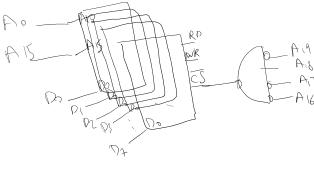
- 4. Repeat the problem (how many modules and design)
- 5. Draw the timing diagram of 8086 for the execution of this instruction and show which memory modules will be activated (MOV [300H],AX where AX: 8B3FH and DS:F000H (E000H))

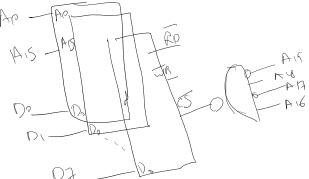


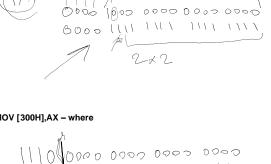




## . 64K x 1bit SRAM for 60000 - 7FFFF (40000 - 5FFFF)







.0000

1111

0000

1111

. 512k x 2 bit SRAM for 00000-1FFFF (20000 - 3FFFF)

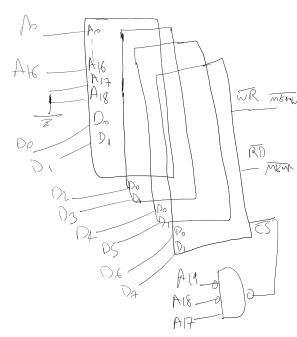
8000

2×8

00\$O

(B) (1) (B) (D)

00





- . 16k x 4 bit ROM for 28000-2FFFF (08000 0FFFF)
- · 256k x 8 bit SRAM for F0000-FFFFF (E0000 EFFFF)
- . 512k x 2 bit SRAM for 00000-1FFFF (20000 3FFFF)

