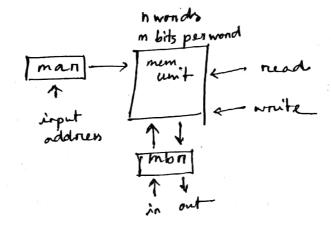
memory unit: collection of negistars + associated circuits

binary cell: Honge

word; group of bits (16 bit)

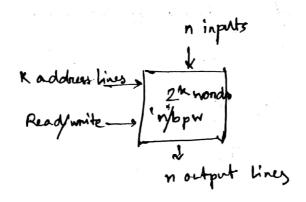
· 1 Byte (8 bit)

MAR: memony address register MBR: memony buffer register



read - (10 adds in men) & man -> mbn -> wen write -> mbrs -> (mem dods free) coman

mbn - read as one write as corres input stay man - access of memory address.



· K number address lines = 2k worlds.

e.g.
$$1024 \times 8$$
 $\Rightarrow 2^{10} \times 8$
 $10 = address register contains$
 $10 = 5.F.$

bits = 8 = buffer register contains

 $8 = 5.F.$
 $8 = 2^{40} = 1024$
 $10^{4} = 1000$
 $10^{4} = 1000$
 $10^{4} = 1000$
 $10^{4} = 1000$
 $10^{4} = 1000$
 $10^{4} = 1000$
 $10^{4} = 1000$

Formulas

e.g. her many address lines for 64 MB Ram 32 bit

Binary Cell:

hput -> BC + output

Read/write

Logic construction n/ Decoder & or gates (4x3 RAM)

- . address line = dec. inputs
- · decontputs = 2° inputs
 - = no of wonds
- · binary ealls = bits/world
 for each world
- · binary cells will be connected to Data inputs.
- · Data inputs = bits/word