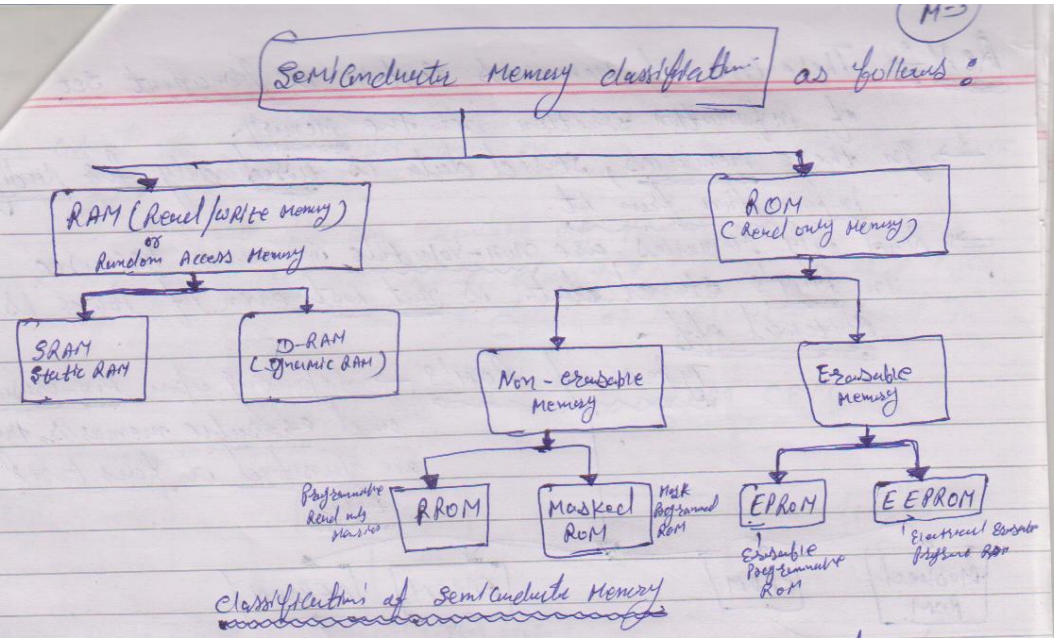
Semiconductor Memory classification as follows:



Classifications of Semiconductor Memory

RAM → In these types of memories, the data stored in any location can be read or write at any time during the operation. also known as R/W memories

→ are volatile memories, because in RAM stored data is lost when power is switched off.

Types of RAM → fabricate with bipolar & MOS components

(i) Static RAM
↳ The Data will Remain stored permanently as long as they are supplied with Power, These chips are complex bcoz it uses more transistors and other devices to store a bit of information in SRAM.
→ The basic memory cell used for the SRAM is flip flop.
→ Single SRAM make the use of six transistors.
→ SRAM has an access time of 80-ns. faster than D-RAM

(ii) Dynamic RAM
↳ The Data will not Remain stored permanently even if the power is supplied.
→ The Basic memory cell used for D-RAM is capacitor
→ Single D-RAM make the use of four MOS transistor
→ DRAM is slower than SRAM which has only 60 nsec access time
→ It consume low power