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**Sec: 7**

1. **List the access method on Memory?**
2. **Write notes about “Word” on Memory?**
3. **Write notes about Memory hierarchy?**

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**Answer**

(1)

1. Sequential
2. Direct
3. Random
4. Associative

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(2)

**(Word):** The natural unit of organization of memory. the size of word equals the number of bits used to represent an integer and the instruction length.

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(3)

**we decided to make Memory hierarchy to be easy to get our needs. So, we find in the top of Memory hierarchy**

# **in board memory** **that contains:** • Registers • Cache • Main memory

# **Out board memory** **that contains:** • Magnetic disk

# **offline storage** **that contains:** • Magnetic tape

**we get that finally that:**

• Increasing access time

• Increasing capacity

• Decreasing frequency of access of the memory by processor

• Decreasing cost per bit