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**Sec : 4**

1. **List the access method on Memory?**

***1.Sequential access:*is used to separate record and assist in the relative process which is organized into of data called records so access must be made in a specific linear sequence**

***2.Direct access:*as with sequential access, direct access involves a shared read-write mechanism however,individual record have a unique address based on physical location**

***3.Random access :*each addressable location in memory has a unique ,physically wired-in addressing mechanism ,like main memory and some cache systems**

***4.Associative*:this is a random access type of memory that enables one to make comparison of desired bit location**

1. **Write notes about “Word” on Memory?**

***Word the “natural” unit of organization of memory . the size of a word is typically equal to the number of bits used to represent an integer and to the instruction length . unfortunately there are many exceptions , for example the cray 90 has a 64-bit word length but used a 46-bit integer representation***

1. **Write notes about Memory hierarchy?**

***The design constraints on a computer’s memory can be summed up - capacity 2-access time 3- the cost***

***the designer would like to use memory technologies that provide for large capacity***

***Because the capacity is needed and because cost per bit is low ,to meet performance requirements the designer needs to use expensive ,relatively lower capacity memories with short access times***

***The variety of technologies are used to implement memory systems and across this spectrum of technologies .***