## TKT20016 Review questions 6

## I Deadlock. Explain four conditions of deadlock.

- \* Mutual exclusion + Only one process may use resource at time.
- \*Hold and mail + Process may hold allocated resources while maiting assignment of other resources-
- No pre-emption Resource can't be removed from process holding it "by force".
- rocess hold resource needed by others in the chain.

## II HDD and SSD

- @ Flash chip three main operations:
  - La Read: Fast, non destructive
  - Frase: Slow, block based, de grades celle, crase entire block.
  - Program: Faster than crose, slower than read, limited write cycles.
- (b) HDD have similar read/write functions, but &
  - \* Flush has no moving parts + faster, lower latency, better random access.
  - > HDDs are mechanical + Slover seek times, rotational latency.
  - 4 Erase in flash is special operation, adding to write cost.

Performance:

\*SSDs & Faster access times, higher throughput, excellent rundon Yo-performance.

\* HDDs & Slower due to mechanical movement; better for sequential 1/0.

Lost :

\* SSDs: More expensive Per GB

+ HDDso Cheaper for GB, making it preferable for Large-capacity storage.