Interview Question

Q 1. Describe concurrency control? (Morgan stanley)
 Concurrency control is the process of managing simultaneous operations on a database so that database integrity is not compromised. There are two approaches to concurrency control.
They are Locking (controlling access to data items using locks) and Versioning (using Multi-Version Concurrency Control) respectively.

Q 2.What are different locks? (Adobe)
Shared Lock
Exclusive Lock

Q 3.What is a shared lock? (Infosys)
It is also known as Read-only lock. As the name suggests it can be shared between transactions because while holding this lock the transaction does not have the permission to update data on the data item. S-lock is requested using lock-S instruction.

Q 4.What is an exclusive lock? (Vmware)
Data items can be both read as well as written.This is Exclusive and cannot be held simultaneously on the same data item. X-lock is requested using lock-X instruction.

Q 5. What is starvation? (Myntra)
Starvation or Livelock is the situation when a transaction has to wait for an indefinite period of time to acquire a lock.