Operating System and Networking

Q1.What is an operating System?

Ans1🡪Software that manages software and hardware resources and provide services to applications.

Q2.Difference between process and thread?

Ans2🡪.Process->independent program with it’s own memory.

.Thread->lightweight unit of execution inside a process and also it shares memory.

Q3.What is deadlock?

Ans3🡪Situation where proceeses wait for resources ina circular chain and due to this none can proceed.

Q4. Name some Deadlock Prevention?

Ans4🡪MutualExclusion,Hold and wait ,Circular wait ,no-preemting

Q5. Difference between paging and Segementation?

Ans5🡪.Paging->divides memory inro fixed size blocks pages.

.Segementation->divides the memory into variable sized logical segemnents.

Q6. Difference between multitasking,multiprocessing and multithreading?

Ans6🡪>Multitasking->Multiple tasks on 1 cpu.

Multiprocessinng🡪Multiple CPU’s.

MultiThreadig🡪Multiple threads inside a process.

Q7.Diff b/ w clustered and non-clustered index?

Ans7🡪. Clustered-> index sorts and store data physically.

.Non-Clustered->index stores pointers separately.

Q8What is ACID in databases?

Ans8🡪Atomicity,Consistency,Isloation,durability are the properties of reliable transaction.  
Q9Difference between TCP vs UDP?

Ans9🡪.TCP ->it is reliable, connection-oriented and slower and is used in web and email  
 .UDP-> it is fast,connection-less and there is no gurantee for data loss. It is used in streaming and gaming.

Q10-Name All OSI model layers?

Ans10🡪 all 7 layers of OSI are : Physical,datalink,Network,transport,session,presentation,application.

Q11 What is DNS?

Ans11🡪It is Domain name system and it converts domain names (google.com) into IP addresses.