Question Bank

1. Distinguish between multiprogramming and multithreading.
2. Define the operating system and list the basic services provided by the operating system.
3. What are the use of job queues, ready queues and device queues?
4. What is meant by context switch?
5.
6. Explain the essential properties of
   a) Time Sharing System
   b) Parallel System
   c) Simple batch System
   d) Real time System

   What are the use of job queues, ready queues
   and device queues?
7. Illustrate the following operating system structures with neat clean diagram..
a)   Monolithic Structure
b)   Layered Structure
c)   Micro-Kernel Structure

8. Define process and Explain process states 2 & 5 in details with diagram
9. Define System Call ? Explain the following types of system calls with examples.
   ● Process Control
   ● File-management
   ● Device-management
   ● Information maintenance
   ● Communication
10. Explain process states and process control block in details
11. Explain the following process scheduling algorithm. &
    1) Draw Gant charts illustrating execution of these processes
    2) Calculate turnaround time for each process for scheduling algorithm in part
    3) Calculate waiting time for each scheduling algorithm in part with an example
       ● **first scheduling FCFS**

       ● **Priority scheduling**
       ● **Shortest job**