**O.S. QUESTION BANK**

1. **What are main functions of OS?**
2. What does the CPU do when there are no program to run ?
3. Why must user programs be prohibited containing interrupt vector ?
4. What is principal advantage of Multiprogramming ?
5. Given a system with an processes how many possible ways can these processes be scheduled ?
6. In what way is shortest job first scheduling just a particular form of priority scheduling ?
7. On a system using non-preemptive scheduling process with expected run times of

5 ,18,9&12 are in the rarely queue. In what order should they be run to minimize waiting time.

1. For processes listed in table draw a chart illustrating their execution using :
2. FCFS
3. SJF
4. SRTN
5. Round Robin (quantum = 2)
6. Round Robin (quantum = 1)

|  |  |  |
| --- | --- | --- |
| Prosess | Arrival Time | Burst Time |
| A | 0 | 4 |
| B | 2 | 7 |
| C | 3.001 | 2 |
| D | 3.002 | 2 |

What is turn around time of each process, avg, waiting time.

1. **Name different system components mentioning the function of each define system call.**
2. **What is layered approach? Explain.**
3. **Define what is process ? Explain different states of a process.**
4. **What is PCB ? Why is it required ?**
5. **Why a process scheduling necessary in a system ?**
6. **How many types of queues are required ?**
7. **Explain need for context switching W.R.T process scheduling**
8. **How many operations a process consist of ? Explain**
9. Why co-operating nature of process required in a system, How it is useful.
10. **Why long term scheduler can’t be used for CPU scheduling ?**
11. **Give a comparison of all CPU scheduling algorithm.**
12. **Which are scheduling algorithm evaluation methods, justify which is more accurate.**