**Question Bank 1**

1. Explain the need of an Operating System.

2. Explain the term deadlock in brief.

3. Explain different roles of operating system in brief.

5. Explain the term PCB in brief.

6 Explain Multilevel feedback Queue scheduling.

7. Write two advantages of LINUX Operating System.

8. Explain in brief about process synchronization.

9. Define the term Waiting time and Turnaround time in reference to scheduling algorithms.

10. Explain in detail the role of Operating system as a resource Manager.

11. Define the term deadlock. Explain various necessary conditions for a deadlock to occur.

Explain in brief about deadlock prevention.

12. What is the Kernel in operating system?

13. Define operating system as resource manager.

14. Define Starvation in deadlock.

15. Discuss the functionality of system boot with respect to an Operating System.

16. Discuss the essential properties of following types of Operating System:

* Time Sharing OS
* Multiprocessor OS
* Distributed Systems

17.Outline a solution using semaphores to solve Dinning Philosopher Problem.

18. Give the Peterson’s solution to the Critical section problem.

19. What is a Dispatcher? Mention its functions.

20. What are the various data structures used for implementing banker’s algorithm? Provide a brief description of each.