QUESTIONBANK

18CSC205J-Operating Systems

Unit- I

PARTA

1. Define Operating System. What are the functions and objectives of OS?
2. Explain the role of OS as resource manager.
3. List the services provided by OS.
4. What do you mean by kernel?
5. Brief serial processing. What are the problems faced by serial processing systems?
6. Explain batch processing.
7. What is resource utilization?
8. What is a monitor in batch OS? What is resident Monitor? Give its memory layout.
9. What is multiprogrammed systems.
10. Differentiate uniprogramming and multiprogramming.
11. What are the advantages of multiprogramming?
12. What do mean by time sharing systems?
13. Compare batched multiprogramming systems and time sharing systems.
14. Define Multiprocessing and multitasking.
15. Briefly explain kernel/supervisor mode and usermode.
16. What is a process? What are the components of process.
17. What is process management?
18. Define Memory management.
19. Define Information protection and security.
20. Brief about issues considered in multiprocessor and multicore architecture design.
21. List the events that lead to process creation.
22. Write about the different process states.
23. List reasons for process termination.
24. Show the Process representation in Linux.
25. Explain Process scheduling with a neat diagram
26. What is ready queue and device queue?
27. Differentiate short term and long-term scheduler. What is the use of medium-term scheduler?
28. What is context switch?
29. What is a PCB? Explain the role of PCB?
30. List the steps involved in process creation.
31. Define Thread. List the benefits that are associated with threads?
32. What is IPC.
33. What is bounded and unbounded buffer?

PARTB

1.Discuss about the evolution of operating systems.

2. With neat diagram explain the five states involved in process model.

1. Explain the various reasons involved in process creation and termination.
2. Explain IPC in detail.
3. Explain scheduler and its types.