

Sample Questions for Periodic Test I

SE (Computer-C1,C2 and C3)

1. Explain Functions of OS.
2. Explain Services provided by OS.
3. Explain OS as a Resource Manager.
4. Discuss Evolution of the OS.
5. What is an OS? Explain user mode and kernel mode with an example.
6. Differentiate between Multiprocessing and Multiprogramming.
7. What is a System call? Explain with help of a diagram?
8. Explain different types of System calls(windows or unix)?
9. Explain the concept of shell.
10. With respect to process management, explain different types of queues with a neat diagram.
11. Explain different types of OS structure: Monolithic, Micro kernel and Layered OS structure with neat diagram.
12. What is the process and explain the structure of PCB.
13. Draw and Explain 5 state process transition diagram. .
14. Draw and Explain 6 state process transition diagram. .
15. Draw and Explain 7 state process transition diagram. .
16. Explain 5 Process scheduling criteria.
17. Explain Memory Management Requirements.
18. Explain Swapping and Overlay.
19. .Explain Fixed partitioning.
20. Explain Variable partitioning.
21. Explain Internal and External Fragmentation with an example.
22. Explain compaction with an example.
23. Explain the following scheduling policies with an example:
 - a. FCFS
 - b. SJF
 - c. SRTN / SRTF
 - d. Priority
 - e. Round Robin
24. Any Numerical problems on process scheduling policies.
25. Any Numerical problems on Best fit, Worst fit, First fit, Next fit.