OS questions

1. types of scheduling.
2. Write a short note on Single contiguous memory management.
3. Explain functions of Memory Management Unit.
4. Write a short note on Variable/Dynamic partition memory management.
5. Batch Operating System
6. Booting
7. classical ipc problems
8. Clustered Systems
9. Components of os
10. Context Switching and its advantages
11. Contigious and Non-contigious allocation method
12. Contiguous Memory and chained (linked lists)
13. Critical Section
14. Deadlocks , preventions , how to avoid , recovery
15. Describe Classical IPC problems.
16. Describe how to implement a lock using semaphores.
17. Device Driver , Device Handler:
18. Different Services of the Operating Systems
19. Direct Memory Access (DMA)
20. Explain Computer Architecture with suitable Diagram.
21. Explain concept of semaphore with suitable example.
22. Explain File system
23. Explain graphical representation of deadlock
24. Explain importance of virtual memory management system.
25. Explain in brief process lifecycle.
26. Explain Interrupt service routine with diagram.
27. Explain multithreading models?
28. Explain mutual exclusion in IPC.
29. Explain operating system structure.
30. Explain segmentation with suitable diagrams.
31. Explain the term memory swapping.

32. Explain various process states.
33. Goal of authentication
34. I/O Procedure:
35. Inter Process Communication (IPC)
36. Interrupt Service Routines (ISR)
37. Layered Os
38. List different page replacement algorithms with exxamples
39. memory allocation
40. Monolithic (Simple) Operating System
41. Mutual Exclusion in IPC Paging
42. Peterson algorithm
43. Process and Process States , Define process , Diagrams
44. Process Control Block (PCB)
45. Procucer Consumer problem
46. Protection mechanism in file system
47. Race condition with examples
48. recovery-from-deadlock-in-operating-system/
49. Scheduling policies
50. SEGMENTATION
51. semaphore
52. solution for Producer Consumer problem with Examples
53. Swapping
54. System Calls
55. system when page fault occurs.
56. Time sharing systems vs Process Control and Real Time Operating Syste
57. Under what circumstances do page fault occur? Describe the action taken by operating
58. Virtual Memory
59. What is authentication?
60. What is batch system in OS?
61. What is critical section problem? Why executive critical section must be exclusive Explain
62. What is dead lock? What are the dead lock detection methods?
63. What is Demand Paging?
64. What is difference between logical end physical addresses?
65. What is Memory management?
66. What is Multiprogramming system?

67. What is OS?
68. What is Process Control Block?
69. What is Process?
70. What is race condition? Give an example.
71. What is Semaphore?
72. What is the difference between paging and segmentation?
73. Which are the techniques for Deadlock recovery?
74. Which are the techniques used for avoiding deadlock?
75. Write a note on booting.
76. Write a note on Fixed Partitioned Memory Management.
77. Write a note on Peterson's Algorithm.
78. Write a short note on Evolution ofOperating System.
79. Write a short note on history of operating system.
80. Write note on Multitasking.
81. Write note on process scheduling techniques.
82. Write short note on: i) Swapping ii) Protection and Sharing

83. Define operating system and list the basic services provided by operating system

84.What is paging? Discuss basic paging technique in details.

85. Define DMA (Direct Memory Access) controller. Explain its working

86. Explain context-switching with its advantages.