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- 80. What do you mean by Virtual Memory? Write down its advantages?

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- 81. Compare Paging and Segmentation?
- 82. What is Process Scheduling, CPU Scheduling, Disk Scheduling? Explain Short, Medium and Long term Scheduler?
- 83. Explain concept of a process with its components ?
- 84. Explain the following in brief Contiguous and Linked list allocation for implementing file system?
- 85. Explain various Disk scheduling algorithms with Illustrations ?
- 86. Define process and thread. What is PCB ? Explain its various entries with their usefulness ?
- 87. Discuss advantages and disadvantages of the Buffer cache ?
- 88. Explain different types of OS with examples of each ?
- 89. What is an Operating System? Write down its desirable characteristics ?
- 90. Define a deadlock ? Write down the conditions responsible for deadlock? How can we recover from deadlock ?
- 91. What are the various services provided by Operating system ?
- 92. What do you mean by PCB? Where is it used? What are its contents? Explain.
- 93. What is Binary and Counting semaphores ?
- 94. What is File? What are the different File attribute and operations?
- 95. What are System call? Explain briefly about various types of system call provided by an Operating System?
- 96. Describe necessary conditions for deadlocks situation to arise.
- 97. What are points to be consider in file system design? Explain linked list allocation in detail?
- 98. Write a Semaphore solution for dining Philosopher's problem?
- 99. Consider the following page reference string:1,2,3,4,5,3,4,1,2,7,8,7,8,9,7,8,9,5,4,5.How many page faults would occur for the following replacement algorithm, assuming four frames:a) FIFOb) LRU

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- 100. Explain CPU schedulers in operating system?
- 101. Write the different state of a process with the help of Process state deagram?
- 102. What is Mutex in operating system?
- 103. Explain Network operating system?
- 104. What do you mean by paging in operating system ?
- 105. GATE CSIT 2023 Solved Paper