Table of Contents



- 1. Tutorial
- 2. OS Previous Years Solved
- 3. OS PYQs Hindi Videos

1. Tutorial

- Introduction to Operating Systems
- Different Types of OS
- Characteristics and features of an OS
- · Operating sytems services
- System Calls in OS
- File Systems
- How many page faults
- Process State Diagram
- Operating System Scheduler
- FIFO page replacement algorithm
- SRTF shortest remaining time first
- LRU page replacement algorithms
- Optimal page replacement algorithm
- Process concept
- Directory Structure OS
- Evolution of os
- Functions of os
- Memory management
- Concept of Threads
- · Contiguous disk space allocation method

Multiple Processor Scheduling

2. OS Previous Years Solved

- What do you mean by Virtual Memory? Write down its advantages?
- What is Process Scheduling, CPU Scheduling, Disk Scheduling? Explain Short, Medium and Long term Scheduler?
- Compare Paging and Segmentation?
- Explain concept of a process with its components?
- Explain various Disk scheduling algorithms with Illustrations?
- Explain the following in brief Contiguous and Linked list allocation for implementing file system?
- Discuss advantages and disadvantages of the Buffer cache?
- Define process and thread. What is PCB ? Explain its various entries with their usefulness ?
- What is an Operating System? Write down its desirable characteristics?
- Explain different types of OS with examples of each?
- What is an Operating System? Write down its desirable characteristics?
- Explain different types of OS with examples of each?
- Define a deadlock? Write down the conditions responsible for deadlock? How can we recover from deadlock?
- What is Binary and Counting semaphores?
- What do you mean by PCB? Where is it used? What are its contents? Explain.
- What are the various services provided by Operating system?
- Describe necessary conditions for deadlocks situation to arise.
- What are System call? Explain briefly about various types of system call provided by

an Operating System?

- What is File? What are the different File attribute and operations?
- Write a Semaphore solution for dining Philosopher's problem?
- What are points to be consider in file system design? Explain linked list allocation in detail?
- Write the different state of a process with the help of Process state deagram?
- Explain CPU schedulers in operating system?
- 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
- Write a Semaphore solution for dining Philosopher's problem?
- What do you mean by paging in operating system?
- Explain Network operating system?
- What is Mutex in operating system?
- Write the different state of a process with the help of Process state deagram?

3. OS PYQs Hindi Videos

- 01 Bankers algorithm need matrix safe state example 01 in Hindi video
- 02 Bankers algorithm need matrix safe state example 02 in Hindi video
- 03 Semaphores in Operating System in Hindi video
- 04 What do you mean by virtual memory and its advantages in Hindi video | RGPV OS previous years
- 05 Compare Paging and Segmentation in Hindi video | RGPV previous years
- 06 What is Process scheduling, CPU Scheduling and Disk sCheduling? Explain scheduler in Hindi video

- 07 Explain concept of a process with its components? | RGPV previous years in Hindi video
- 08 Contiguous and linked list allocation for implementing file system in Hindi video |
 RGPV previous years
- 09 Explain various Disk scheduling algorithms with illustration? in Hindi video | RGPV previous years
- 10 Define process and thread. What is PCB? Explain its various entries with their usefulness? in Hindi video
- 11 Buffer cache advantages and disadvantages in Hindi video
- 12 Types of operating systems in Hindi video
- 13 OS #01 | What is OS and its characterstics | OS previous years in Hindi video
- 14 Short notes on Multiprocessor, Distributed OS, Thread, File protection | RGPV previous years in Hindi video
- 15 Deadlock conditions | OS previous years in Hindi video
- 16 Binary and Counting semaphore | OS previous years in Hindi video
- 17 PCB its meaning, uses and contents | RGPV previous years in Hindi video
- 18 File system design points to consider and linked list allocation | RGPV previous years in Hindi video
- 19 What is File, its attribute and operations | RGPV previous years in Hindi video
- 20 Services provided by an operating system | RGPV previous years in Hindi video
- 21 System call and its types | RGPV previous years in Hindi video
- 22 Write a semaphore for dining philosopher's problem | RGPV Previous Years in Hindi video
- 23 Mutual exclusion and Critical Section problem | RGPV Previous years in Hindi video
- 24 How many page faults would occur | OS previous years in Hindi video
- 25 Contiguous memory allocation static dynamic fixed variable size in Hindi video
- 26 Deadlock Handling in OS in Hindi, mutual exclusion, hold and wait, no preemption,

circular wait in Hindi video

- 27 Deadlock and its conditions in OS in Hindi video
- 28 CPU schedulers in operating systems | long term | short term | medium term scheduler in Hindi video
- 29 Process control block in operating system | PID | PC | Process state | Priority in Hindi video
- 30 Process state diagram in operating systems | New | Ready | Wait | Terminate |
 Suspend wait in Hindi video
- 31 Bankers algorithm with example | Need matrix, available, safe state, resource allocation in Hindi video
- 32 CLook disk scheduling algorithm with example | Circular look, Seek time, Disk head, arm in Hindi video
- 33 Look disk scheduling algorithm with example | Seek time | Head | Arm | Total seek time in Hindi video
- 34 C-SCAN Disk scheduling algorithm with example in Hindi, circular scan, total seek time in Hindi video
- 35 SCAN Disk scheduling algorithm with example in Hindi video
- 36 SSTF Disk scheduling algorithm with example in Hindi video
- 37 FCFS Disk scheduling algorithm with example in Hindi video
- 38 Priority CPU Scheduling algorithm with example in Hindi video
- 39 LRU page replacement algorithm with example in Hindi video
- 40 Optimal page replacement algorithm with example in Hindi video
- 41 MRU page replacement algorithm with example in Hindi video
- 42 FIFO Page Replacement algorithm with example in Hindi video
- 43 Round Robin CPU scheduling algorithm in Hindi video
- 44 FIFO CPU scheduling algorithm with example in Hindi video
- 45 SJF non preemptive CPU scheduling algorithm with example in Hindi video

- 46 SJF Preemptive CPU scheduling algorithm with example in Hindi video
- 47 SRTF CPU scheduling algorithm in Hindi video
- 48 GATE SRTF | What is the total waiting time for process P2 in Hindi video
- 49 Critical Section Problem in Hindi video
- 50 Mutex in OS in Hindi video
- 51 Fragmentation in OS in Hindi video
- 52 Paging in Hindi video
- 53 Process Scheduler in Hindi video
- 54 Network operating system in Hindi video
- 55 Timesharing operating system in Hindi video
- 56 Batch operating system in Hindi video
- 57 Deadlock | Conditions in Hindi video
- 58 Swapping in Hindi video