



In the Name of Allāh, the Most Gracious, the Most Merciful

Final-Term Papers Solved MCQS with Reference

- _____ enable processes to communicate with each other
 - Directory
 - **FIFO** PG # 218
 - Link File
 - Ordinary File
- _____ scheme works well if members of the team are to work on these shared files sequentially.
 - Common Group
 - **Duplicating Files** PG # 288
 - Common Login
 - Link
- UNIX recognizes _____ modes of access
 - One
 - Two
 - **Three** PG # 230
 - Four

UNIX recognizes three modes of access: read, write, and execute (r, w, x).

4. The_____ algorithm selects the request with the minimum seek time from the current head position

- Scan
- SSTF**
- Look
- C-Look

PG # 244

5. Which part of the computer system helps in managing the file and memory management system?

- Operating System**
- Device Drivers
- Application Software
- Hardware

6. _____ is used to store data on secondary storage device.

- Block Special File
- Link File
- Ordinary File**
- Directory

PG # 218

7. _____ is a way to establish a connection between the file to be shared and the directory entries of the users who want to have access to this file.

- Link**
- Directory
- Common Group
- Access Permission

PG # 229

8. Which one of the following indicates end of the file in a read () system call?

- 1
- 0**
- 1
- 2

9. In one of the deadlock prevention methods, impose a total ordering of all resource types, and require that each process requests resources in an increasing order of enumeration. This violates the _____ condition of deadlock.

- Mutual exclusion
- Hold and Wait
- Circular Wait**
- No Preemption Right

PG # 134

10. The bottom layer in the layered approach of Operating System is _____.

- User interface
- Hardware**
- Kernel
- API

PG # 18

11. The non-critical section code in any critical section problem is termed as _____.

- Critical Section
- Entry Section
- Leave/Exit Section
- Remainder Section**

12. The process that satisfies all three requirements of critical section problem is called _____.

- Algorithm 1
- Algorithm 2
- Algorithm 3**
- Algorithm N

13. The main disadvantage of semaphore is _____.

- Context switching
- Busy waiting**
- Synchronization
- Deadlock

PG # 111

14. In Unix/Linux, pipes provide a method of one-way communication and for this reason it may be called _____.

- Soft pipes
- FIFO named pipes
- Full-duplex pipes
- Half-duplex pipes**

PG # 46

15. Consider process A is trying to access a page that does not belong to its address space. Which of the following protection scheme provide protection against such actions under paging?

- Valid/invalid (v) bit**
- Null bit/parity (n) bit
- Execute/parity (e) bit
- Write/null (w) bit

PG # 170

16. -----is the separation of user logical memory from physical memory.

- Virtual Memory**
- RAM
- Physical memory
- ROM

PG # 186

17. For page replacement algorithms, the page fault rate may increase as the number of allocated frames _____.

- Keep Constant
- Increases**
- Decreases
- Available

PG # 200

18. In the Scan algorithm, disk _____ starts at one end of the disk, and moves toward the other end, servicing requests as it reaches each cylinder, until it gets to the other end of the disk.

- Arm** PG # 245
- Cylinder
- Head
- Vector

19. In case of thrashing, if CPU utilization is too low, the operating system _____ the degree of multiprogramming

- Increases** PG # 208
- Decreases
- Increases or Decreases
- Keeps constant

20. When there is no external fragmentation, free memory blocks are scattered on hard disk then _____ is used in order to utilize these blocks for space management.

- Indexed Allocation
- Contiguous Allocation
- Linked Allocation** PG # 235
- Variable Allocation

21. In a Multilevel Queue, the foreground queue has ----- scheduling algorithm and background queue has ----- scheduling algorithm.

- First Come First Serve, Round-Robin
- Round-Robin, First Come First Serve** [Click Here For Reference](#)
- Round Robin, Round Robin
- First Come First Serve, First Come First Serve

22. Main memory is a large array of -----called memory locations ranging in size from hundreds of thousands to billions.

- Interrupts
- Registers
- Digits
- Words**

PG # 12

23. The syntax for input redirection is

- command < input-file**
- command > input-file
- command >= input-file
- command =< input-file

PG # 55

24. The semaphore empty is initialized to the value -----; the semaphore full is initialized to the value -----.

- 0,n
- n,0**
- n,n
- 0,0

PG # 116

25. High-level synchronization construct that allows the safe sharing of an abstract data type among concurrent processes is called a -----

- Read/Write Lock
- Swap
- Semaphore
- Monitor**

[Click Here For Reference](#)

26. When drawing the resource allocation graph, processes are represented by -----and resources by -----

- Squares, Squares
- Circles, Circles
- Circles, squares
- Squares, Circles**

[Click Here For Reference](#)

27. Preventing the condition of _____ to happen, deadlocks can be prevented to happen.

- Critical region
- Monitors
- Circular wait** **PG # 135**
- Critical section

28. If validation bit is 0, it indicates a/an ----- state of segment.

- Protected
- Shared
- Legal
- Illegal** **PG # 178**

29. Intel is basically designed for following Operating Systems except _____.

- MULTICS** **PG # 180**
- OS/2
- Windows
- Linux

30. The term **pager** is used in connection with _____.

- Demand Paging** **PG # 187**
- Paging
- Segmentation
- Paged Segmentation

31. In deadlock detection and recovery algorithm, a deadlock exists in the system if and only if the wait for graph contains a _____

- Cycle** **PG # 145**
- Graph
- Edge
- Node

32. Object files and libraries are combined by a ----- program to produce the executable binary

- Compiler
- Linker**
- Text editor
- Loader

33.-----holds the smallest legal physical memory address for a process

- Stack pointers register
- Base register** **PG # 10**
- Limit register
- Index register

34. External Fragmentation takes place in _____

- Multiprogramming with Variable Tasks (MVT)** **PG # 163**
- Multiprogramming with Fixed Tasks (MFT)
- Multi-tasking
- Paging

35. A process is _____ if it is spending more time on paging

- Thrashing** **PG # 206**
- Demand paging
- Paging
- Fixed Allocation

36. Every ----- generated by the CPU is divided into two parts: a page number (p) and a page offset (d).

- Page
- Process address space
- Physical address
- Logical address** **PG # 164**

37. The most important property of the working set is its _____.

- Delay
- Thrashing
- Time
- Size**

PG # 211

38. _____ algorithm is the optimal scheduling algorithm among all the non-preemptive scheduling algorithms.

- Shortest Job First scheduling**
- First Come First Serve
- Priority Scheduling
- Round Robin Scheduling

39. The Swap instruction which is the hardware solution to synchronization problem does not satisfy the _____ condition, hence not considered to be a good solution.

- Bounded waiting**
- Mutual exclusion
- No preemption
- Progress

40. The statement “A process may hold allocated resources while waiting for other resources” best describes which one of the following conditions?

- Mutual Exclusion
- No preemption
- Hold and wait**
- Circular wait

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*Winning is not everything,
but wanting to win is
everything.....
Go Ahead..... Best Of Luck !*