



CS604 Operating System Update MCQS For Quiz-2 File Solve By Vu Topper RM



80 To 100% Marks



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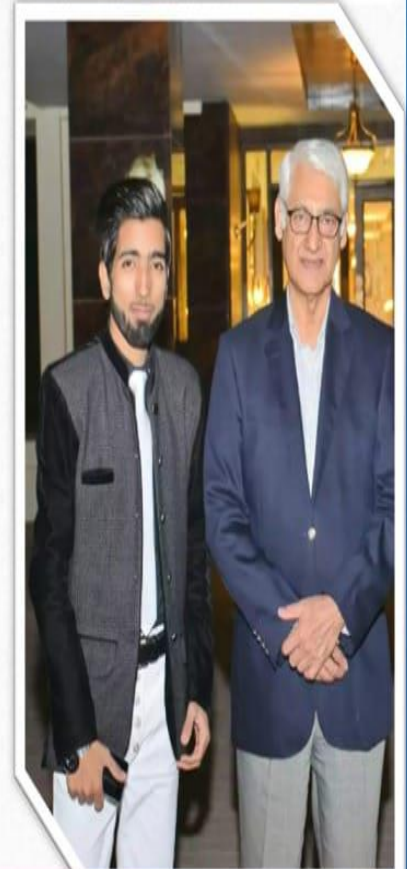
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The child process can

- A. Be a duplicate of the parent process**
- B. Never be a duplicate of the parent process
- C. Never have another program loaded into it
- D. Cannot have another program loaded into it

Page 36

First _____ entries in Per Process File Descriptor Table are used as soon as the process is created.

- A. 1
- B. 2
- C. 3**
- D. 4

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(New Mcqs)

In Unix/Linux environment, Ayesha wants to know the complete picture of current processes in her session. Which of the following command will help her in this regard?

- A. \$ ps**
- B. \$ gcc
- C. \$ top
- D. \$ fifo

Page 63

(New Mcqs)

A time-sharing system is:

- A. Multi-user
- B. Interactive
- C. Multitasking
- D. All of these**

Page 6

The BSD sockets are used for communication between related or unrelated processes on the same system or on different systems.

- A. Sibling process
- B. Related processes
- C. Unrelated processes**
- D. Both (related and unrelated)

Page 50

_____ scheduler takes the process from the ready queue and assigns the CPU with the help of Dispatcher.

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- A. Swapper
- B. Long term
- C. Short term**
- D. Medium-term

Page 79

Which of the following provide interface to access the services of the operating system?

- A. API
- B. Library call
- C. System call**
- D. Assembly Instructions

Page 15

This layered approach is taken to its logical conclusion in the concept of a _____ .

- A. Logical Machine
- B. Virtual machine**
- C. Physical Machine
- D. None of the these

Page 19

While a process executes its critical section, other entering processes loop in a continual function in their entry sections, thus causing _____ .

- A. Busy waiting**
- B. Race condition
- C. Bounded waiting
- D. Mutual exclusion

Page 109

Taking the CPU from one process and giving the CPU to another process is termed as _____ .

- A. Tracking
- B. Swapping
- C. Dispatching

D. Context Switching

Page 31

To display all processes _____ option is used with ps command.

A. -l

B. -e

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(New Mcqs)

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C. -u

D. -a

_____ scheduler selects the process from the job pool and put them in main memory.

A. Swapper

B. Short term

C. Long term

Page 33

D. Medium term

_____ command in Linux helps to create a new directory.

A. Is

B. Cp

C. Mv

D. Mkdir

Page 26

(New Mcqs)

When processes are generated using fork () system call and then after that they are coordinated with each other using IPC channel. They are utilizing a separate address space for each of process (parent, child),, kernel resources and IPC channel. This makes it a more heavy. Which strategy can be used to make it light?

A. Use of thread

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(New Mcqs)

B. Use of batch systems

C. Scheduling of each process

D. Termination of child process when these become more

The region in the memory that a process is allowed to access is known as process.

A. Register

B. Operation

C. Instruction

D. Address Space

Page 10

A signal is an event generated to get attention of

A. Trap

B. Process

Page 7

C. Interrupts

D. Hard disk

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The creating process is called a _____ process while the new processes are called the _____ of that process

- A. Zombie, single
- B. Children, parent
- C. Parent, children**
- D. None of the given

Page 35

The file descriptor for Standard input (stdin) is _____

- A. 0**
- B. 1
- C. 2
- D. 3

Page 52

(New Mcqs)

Which is not a parameter of pthread_create().

- A. Function
- B. Thread ID
- C. Return status**
- D. Thread attributes

Page 73

(New Mcqs)

In _____ inter process communication, a sender mention the name of a recipient.

- A. Direct**
- B. Indirect
- C. Automatic
- D. Synchronous

Page 43

For undivided and uninterrupted testing and setting of semaphore, uni-processor systems tend to _____

- A. Use signal
- B. Use spinlock
- C. Disable Interrupt**
- D. Use bakery algorithm

Page 109

Which could not be the advantage of thread?

- A. Economical
- B. Quick response

C. Separate address space

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(New Mcqs)

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D. Best in multiprocessing environment

The _____ approach include the ease of extending the OS.

A. Small Kernel

B. Micro Kernel **Page 19**

C. Macro Kernels

D. Monolithic Kernel

For reading input, which of the following system call is used?

A. Rd

B. Read **Page 45**

C. Write

D. Change

In round-robin (RR) scheduling algorithm the CPU scheduler goes around the ready queue, allocating the CPU to each process for a time interval of up to _____ time quantum.

A. 1 **Page 85** **(New Mcqs)**

B. 2

C. 3

D. 4

_____ processes or thread often need access to shared data and shared resources.

A. Single

B. Parallel

C. Temporary

D. Concurrent **Page 95**

When a process has undivided access to a shared piece of code then no other process can execute this code, this state is called

_____.

A. Progress

B. Race condition

C. Bounded waiting

D. Mutual exclusion **Page 98** **(New Mcqs)**

In hardware multiprocessor environment two instructions are

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executed __ which are swap and Test And Set.

A. By force

B. Manually

C. Atomically Page 105

D. Automatically

The kernel is _____ user threads.

A. Is part of

B. Aware of

C. Unaware of Page 70 (New Mcqs)

D. The creator of

The _____ process creates two FIFOs, FIFO1 and FIFO2, and opens FIFO1 for reading and FIFO2 for writing.

A. Client

B. Server Page 60

C. Both

D. None of these

Which of the following statement is not true regarding the cooperating processes?

A. It may affect or be affected by any other process euting in system Page 41

B. It provides an environment to allow concurrent user to access same resources.

C. It provide an environment to run parallel processes to speedup computation.

D. It construct the system in a modular fashion, dividing the system functions into separate processes or threads.

In which of the following system multiple user are allowed to used the computer simultaneously?

A. Two users

B. Three users

C. Multi users Page 6

D. Single users

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We can perform the solution to critical section problem by allowing only one process to enter at a time but another solution hold some instruction use. One of them is TSL, how it is written in program?

- A. TSL ()
- B. TSL (Bolean &target)
- C. Testandset(Bolean &target)

D. TestAndSet (Boolean &target) Page 105

As a result of <Ctrl-C>, a SIGINT signal is sent to a process. Signal number for SIGINT is _____.

- A. 1
- B. 2
- C. 9
- D. 15

Page 66

(New Mcqs)

System calls provide the interface between a _____ and the Operating System.

- A. User
- B. Kernel
- C. Process
- D. Machine

Page 15

In operating system, _____ command is used to copy files to same location or different location.

- A. Cp
- B. Copi
- C. Copy

D. Both Copy and CP Google

When sender never block because it has an infinite length storage area, then it means it is holding a queue of _____ capacity.

- A. Zero
- B. Defined
- C. Bounded

D. Bounded Page 45

A process is _____ if it cannot affect or be affected by any other process executing in the system.

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A. Dependent

B. Independent Page 41

C. Both (independent and dependent)

D. None of the given

You can have a thread wait for another thread within the same process by using the _____ system call.

A. pthread_exit()

B. pthread_join() Page 73

C. pthread_create()

D. pthread_terminate()

State of process transits from running to ready because of_____.

A. I/O

B. Fork()

C. Interrupt Page 79

D. Scheduler dispatch

In _____addressing, the recipient is not required to name the sender.

A. Symmetric

B. Asymmetric Page 44

C. Both

D. None of these

The situation in which no context switching is required in multiprocessor system is referred to as _____.

A. Interrupt

B. Spin lock Page 110

C. Scheduler

D. Busy waiting

After fork() system call is made, parent and child process have their separate copy of

A. Nice value

B. Environment

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C. File descriptors

Page 38

D. File mode creation mask

Bounded Buffer is a buffer of _____ size.

- A. Data
- B. Variable

C. Fixed

Page 41

D. None of these

The segment of code in which the process may change common variables, update tables, write into files is known as _____

- A. Program
- B. Synchronizing

C. Critical section

Page 102

(New Mcqs)

D. Non-critical section

_____ are lowest prioritized processes for scheduling in Kernel Group.

A. User processes

Page 90

(New Mcqs)

- B. Block I/O control processes
- C. File manipulation processes
- D. Character I/O device control processes

The link between two processes P and Q to send and receive messages is called _____

- A. Synchronization link
- B. All of the mentioned

C. Communication link

Page 43

D. Message-Passing link

_____ Algorithm is used for solving n-process critical section problem.

A. Bankers

B. Bakery

Page 102

C. Babbles

D. None of the given

The scheduling of _____ are done by the operating system.

A. Kernel threads

Google

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B. User level threads

C. Both

(New Mcqs)

D. None of these

Binary semaphore whose integer value cannot be > 1 ; can be simpler to implement.

A. Counting

Google

B. Binary

C. Mutex

D. Bounded buffer

The section of code before the critical section is called.

A. Exit section

B. Entry section

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C. Crystal section

D. Remainder section

An operating system is easily portable between varying hardware designs in _____ structural approach.

A. Simple

B. Layered

C. Micro kernels

Page 19

D. Virtual Machines

Which of the following information is not displayed with top command?

A. Nice value

B. CPU Usage

C. Top processes

D. Number of threads in a process

Page 64 (New Mcqs)

In multi-threaded process thread () take two arguments, they are used to take _____ and _____.

A. New thread ID, process name

B. Register count, program counter

C. Program counter value, address space limit.

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**D. New thread function name, new thread ID
(New Mcqs)**

Page 68

To terminate a process <ctrl-c> is pressed, which signal it actually pass to process for termination?

- A. SIGINT** **Page 66** **(New Mcqs)**
- B. SIGKILL
- C. SIGTRAP
- D. SIGTERM

UNIX System V scheduling uses queues, which run _____ algorithm.

- A. Round Robin** **Page 90** **(New Mcqs)**
- B. Shortest Job First
- C. First Come First Serve
- D. Shortest Remaining Time First

Which scheduling algorithm allocates the CPU first to the process that request the CPU first?

- A. Priority scheduling
- B. Shortest job scheduling
- C. First-come, First-served scheduling** **Page 80**
- D. None of the these

The solution type where in critical section we use “entry section and “exit section” is called kind of _____.

- A. Assumption
- B. Hardware solution
- C. Software Solution** **Page 98** **(New Mcqs)**
- D. Operating System Solution

Which of the following is used to show the end of file in unix?

- A. Ctrl+A
- B. Ctrl+D** **Google** **(New Mcqs)**
- C. Ctrl+O
- D. Ctrl+E

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Which is not basic computing hardware?

- A. CPU
- B. Memory
- C. I/O Devices
- D. Compact Disc**

Page 1

The _____ defines an operating system as a bridge between computer user and hardware for a user's convenience.

- A. System-view
- B. Layered-view
- C. Top-down view**
- D. Bottom-up view

Page 3

_____ system call is used to create a child process.

- A. Fork**
- B. Child
- C. Parent
- D. None of them

Page 48

The Operating system is a layer of software between _____ and _____.

- A. Kernel, hardware
- B. Dos, Windows
- C. Windows, Kernel
- D. Hardware, software application**

The OS helps manages the following except

- A. Memory
- B. Virtual memory
- C. Application software
- D. Bus speed of the system**

In Unix/Linux by default the standard input file is attached to the _____

- A. Mouse
- B. Joystick
- C. Light pen
- D. Keyboard**

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The nice value helps in assigning _____ to a process.

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- A. Time
- B. Weight

C. Priority

Google

(New Mcqs)

- D. Scheduling

_____ is a preemptive scheduling algorithm.

A. Round Robin

- B. None of these
- C. Shortest Job First
- D. First Come First Serve

The priorities of processes in the _____ group remain fixed.

- A. User

B. Kernel

Page 90

- C. Both
- D. None of these

In Unix/Linux by default the standard output file is attached to the

- A. File
- B. Printer

C. Screen

Page 52

- D. Scanner

The major advantage of multi-programming system is

- A. More than one jobs can be processed at a given time
- B. CPU utilization can be increases
- C. Jobs can be completed quickly

D. All of the options are correct

Which of the following is NOT a Hardware Resource.

A. OS

- B. CPU
- C. I/O Devices
- D. Memory

Database, Compiler, Video games are examples of _____.

- A. User
- B. Hardware

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C. Application

D. Operating System

Which of the Following is not an Operating System.

A. Linux

B. Unix

C. Database

D. Windows Xp

Managing Secondary Storage Involves all of the Following except

A. Allocating storage space

B. Deallocating Storage

C. Prevent Overwriting

D. Insure integrity of shared data

The Purpose of Operating System is to generate Executable Programs and to _____ them.

Regenerate

Execute

Store

Remove

Copy file1 file2 is an example of _____ OS view.

Top down

Bottom Up

An operating system is a /an _____ that manages the execution of user programs to prevent errors and improper use of a computer

A. Disk

B. Physical unit

C. Control program

D. Application program

Page 3

In priority-scheduling algorithm equal priority processes are scheduled in order.

A. SJF (Shorted Job First)

B. LIFO (Last in First Out)

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D. SRTF (Shortest Remaining Time First)

_____ determines What will be done.

A. Mechanism

B. Policy

C. Mechanism and Policy

D. None of the given

_____ determines How to do something.

A. Mechanism

B. Policy

C. Mechanism and Policy:

D. None of the given

Mach, MacOS X Server, QNX, OS/2 and Windows NT are examples of OS Based on _____.

A. Layered

B. Micro Kernal

C. Virtual Machine

D. None of The Given

In Layered approach of OS, Lowest Layer is known as _____.

A. Software Layer

B. Hardware Layer

C. Lower-Level Layer

D. None of The Given

We can suspend a foreground process by pressing _____, which sends a STOP/SUSPEND signal to the process.

A. Ctrl-w

B. Ctrl-z

C. Ctrl-x

D. Ctrl-y

A dashed line is used to represent a _____ in Resource Allocation Graph.

A. Claim edge **Page 138**

B. Request edge

C. Assignment edge

D. Allocation edge

The process of holding at least one resource and waiting to acquire additional resources that are currently being held by other processes is known as _____.

A. Circular wait

B. No preemption

C. Hold and wait

D. Mutual exclusion

If the system can allocate resources to each process in some order and still avoid a deadlock then it said to be in _____ state.

A. Safe

B. Unsafe

C. Mutual

D. Starvation

In producer-Consumer problem synchronization is required. On which shared area this synchronization actually affects?

A. Buffer **Page 94**

B. Counter

C. Exit section

D. Entry section

Using hardware solution to synchronization for complex problems, introduce a new synchronization tool know as _____.

A. Trap

B. Swap

C. Semaphore **Page 111**

D. TestAndSet

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In instruction TestAndSet mutual exclusion implementation is done by declaring a Boolean variable lock _____.

- A. Initialized as 1
- B. Initialized as Zero
- C. Initialized as True
- D. Initialized to False**

Page 106

Use of semaphore create problem of busy waiting; this wastes CPU cycle that some other process may be able to use productively. This type of semaphore is also called _____.

- A. Mutex
- B. Spinlock**
- C. Semaphore
- D. Locking semaphore

Page 109

_____ is a segment of code that accesses a shared resource like data structure or device that must not be concurrently accessed by more than one thread of execution.

- A. Pipelining
- B. Multithreading
- C. Critical section**
- D. Context switching

In system call that creates a pipe for IPC. If one of the operation from read/write would fail then what will be returned as result?

- A. -1**
- B. 0
- C. -1+1
- D. 1

_____ command is used to change the directory.

- A. Is
- B. Cp
- C. M
- D. Cd**

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Pipes simply used on the command line to connect the standard input of one process to the standard input of another. Which of the following syntax is correct use of command line Linux /UNIX pipes?

A. Cmd1 \$ cmd2 \$.....\$ cmdN

B. Cmd1 | cmd2 |.....| cmdN

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C. Cmd1 & cmd &.....&cmdN

D. Cmd1 % cmd2 %.....%cmdN

When processes communicate with each other, they perform communication through synchronization and utilizing separate address spaces. This action is termed as

A. Synchronization

B. Process management

C. Direct/indirect Communication

D. Inter-process communication

Page 43

Critical section problem can be solved by using how many ways?

A. 1

B. 2

C. 3

Page 97 (New Mcqs)

D. 4

The `system` call suspends the calling process until one of the immediate children terminate.

A. Wait **Page 39**

B. Trap

C. Signal

D. Interrupt

A ___ system has well defined, fixed time constraints, and if the system does not produce output for an input within the time constraints, the system fails.

A. Limited

B. Android

C. Operating

D. Real-time **Page 7**

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The process id returned to the child process after successful fork system call execution is _____.

A. 0 Page 37

B. 1

C. 2

D. 3

The write() system call may not fail for ____reason(s) o Invalid argument o File size limit for process or for system would exceed

A. Disk is full

B. Valid argument Page 51

C. Both

D. None of these

If a parent exit terminating its children processes, these children are handed over process.

A. Init Page 37

B. Root

C. Sibling

D. Daemon

Shared libraries and kernel modules are stored in _____ directory.

A. /lib Page 23

B. /bin

C. /dev

D. /boot

_____ is a piece of code in a cooperating process in which the process may updates shared data (variable, file, database, etc.).

A. Critical Path

B. Critical Code

C. Critical section Page 97 (New Mcqs)

D. Critical Analysis

You can use the mv file1 file2 command to move _____

A. File 2to file 1

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B. File1 to file2.

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C. None of the these

D. This command will not work for moving files

When process opens its first file explicitly it will get descriptor number _____

A. 1

B. 3

Google

(New Mcqs)

C. 5

D. 7

_____scheduling algorithm is sometimes called shortest remaining time first scheduling algorithm.

A. FCFS

B. Priority scheduling

C. Non-preemptive SJF

D. Preemptive Shortest Job First

Page 82

(New Mcqs)

A solution to the critical section must satisfy the following requirements except

A. Progress

B. Race Condition

Page 98

C. Bounded Waiting

D. Mutual Exclusion

_____ displays information about the top processes.

A. Is

B. Cs

C. Cd

D. Top

Page 64

(New Mcqs)

POSIX is a standard developed by _____

A. ISO

B. ACM

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C. IEEE

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(New Mcqs)

D. ANSI

_____ is the basis of queuing theory which is branch of mathematics used to analyze systems involving queues and servers.

A. Queuing Theory

B. Little's Formula

Page 93

(New Mcqs)

C. Queuing Analysis

D. Deterministic Modeling

Batch programs are usually _____ programs.

A. Interactive

B. Foreground

C. Preemptive

D. Non-interactive

Google

(New Mcqs)

A process consists of _____

A. Code

B. Data

C. One or more threads

D. All of the given

_____ is the smallest rectangle enclosing the portion of a window or client area affected by recent drawing operations

A. Invalid Rectangle

B. All of the given options

C. Accumulated Client Rect

D. Accumulated Bounding Rectangle

_____ is used to request the OS by the process to take an I/O or initiating child process.

A. Trap

B. Signal

C. Interrupt

D. System Call

Page 195

Linux uses _____ directory to store system configuration files.

A. /etc

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- B. /bin
- C. /dev
- D. /boot

User mode can run the Privileged instructions.

- A. 1 Google**
- B. 0
- C. 2
- D. 4

A parent process calling _____ system call will be suspended until children process terminates.

- A. Exit
- B. Fork
- C. Wait**
- D. Exec

Page 36

If your processor does not have two slots empty in Per Process File Descriptor Table, then your _____ system call will fail.

- A. Pipe**
- B. Read
- C. Write
- D. Open

Page 52

The manual pages can be read in Linux using _____ command.

- A. Man**
- B. wan
- C. desc
- D. help

Page 24

_____ directory includes essential system boot files including the kernel image.

- A. /bin
- B. /dev
- C. /etc
- D. /boot**

Page 23

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Swapper is also termed as Short term scheduler.

- A. 1
- B. 0

Command-line interpreter is also called _____ in some operating systems.

- A. API
- B. Shell
- C. Signal
- D. Kernel

Google

/usr/X11R6 is used by the X Window System.

- A. True
- B. False

Question No:174 (Marks:01) Vu-Topper RM

/opt is used for storage of large applications.

- A. True
- B. False

Question No:175 (Marks:01) Vu-Topper RM

_____ is a virtual directory in Linux and Unix.

- A. /proc
- B. /temp
- C. /ver
- D. /boot

Question No:176 (Marks:01) Vu-Topper RM

The Home Directory for superuser in Linux and Unix is

- A. /
- B. /home
- C. /root
- D. None of the given

Linux Treats Devices as Files.

- A. True
- B. False

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~/vusr/CS604 is an example of _____ pathname.

- A. Absolute
- B. Relative**

_____ is used to check the predefined identifiers.

- A. #ifdef**

_____ is/are Pre-defined GDI object(s) in Windows.

- A. Pens
- A. Brushes
- B. Fonts
- C. All of the given options**

If a window owns child Windows, and we destroy owner Window then_____.

- A. Only owner window will be destroyed**
- B. Only its owned window will be destroyed
- C. Both owner and owned Windows will be destroyed
- D. The application will be crashed

_____command displays the contents of current working directory.

- A. Is** **Page 25**

- B. Cs
- C. Mv
- D. Cp

The window _____ is the color or pattern used to fill the client area before a window begins drawing

- A. Caption
- B. Color palette
- C. Background**
- D. Foreground

What kind of messages can be display using messagebox function?

- A. Long messages
- B. Short messages**
- C. Null value

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On which machines the scheduler can move individual threads to different processors to “balance” the CPU load.

- A. Miniprocessor
- B. Multiprocessor**
- C. Doubleprocessor
- D. None of given options

An absolute pathname starts with the root directory (/) and a relative pathname starts with your home directory.

A. True

B. False

rm and rmdir commands are used to _____ directory.

A. Remove(Page 27)

Kernel threads are supported directly by the operating system. The kernel performs the scheduling, creation, and management in ----- command display the status of a process.

ps (Page 63)

_____ scheduling algorithm can be preemptive or non-preemptive.

A. Priority

B. Round Robin

C. Shortest Job First

Page 82

(New Mcqs)

D. First Come First Serve

Round Robin algorithm is most suitable for _____.

A. Expert system

B. Time sharing system

Page 85

(New Mcqs)

C. Running batch progress

D. Real time system and batch systems

The critical section problem can't be solved by the following except

A. Firmware based solution (Page 99)

Mkfifo () is a _____.

بري صحبت سے تنہائی بہتر ہے اور تنہائی سے نيك صحبت بہتر ہے

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A. Non of this

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

A. Circular wait (Page 136)

A major problem with priority- scheduling algorithms is _____.

- A. Aging
- B. Deadlock
- C. Nice value

D. Starvation Page 83 (New Mcqs)

A _____ is an integer variable that, apart from initialization is accessible only through standard atomic operations.

- A. Mutex
- B. Semaphore
- C. Busy waiting
- D. Mutual Exclusion

Page 108

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

- A. Hardware
- B. Device Drivers
- C. Operating System
- D. Application Software

Page 12

A/an _____ is software generated call caused by error, or when a user request for an operating system service

- A. Trap
- B. Interrupt
- C. Library call
- D. System Call

Page 7

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Kernel is responsible for scheduling the user level threads.

A. False **Page 70** **(New Mcqs)**

- B. True
- C. Both
- D. None

_____ scheduling allows a process to move between queues.

- A. Round Robin
- B. First Come First Serve

C. Multilevel Feedback Queue **Page 89 (New Mcqs)**

- D. Shortest Remaining Time First

A Process „A“ that has finished working but its parent process has also finished its execution. In this state the process „A“ will be called as _____ process.

- A. Child
- B. Fork
- C. Thread

D. Zombie **Page 42**

_____ system call is used to write to a file or FIFO or any other IPC channel.

- A. Read
- B. Open
- C. Fork

D. Write **Page 48**

Swapper is also termed as Short term scheduler.

A. False(Page 36)

_____ command display the status of a process.

- A. Is
- C. Cat
- D. Gcc

B. Ps **Page 63** **(New Mcqs)**

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You can use the rm file1 command to _____ file1

- A. Make
- B. Modify
- C. Remove**
- D. Retrieve

Page 27

The correct command for compiling C program named program.c in LINUX environment is

- A. gcc -z FirstProgram program.c
- B. gcc program.c -m FirstProgram
- C. gcc -o FirstProgram program.c
- D. gcc program.c -o First Program**

Page 28 (New Mcqs)

Using _____ system, we can create a new process in Linux.

- A. Exit
- B. Wait
- C. Fork**
- D. Exec

Page 36

Cooperating processes never share any data, code, memory or state.

- A. True
- B. False**
- C. Both
- D. None

Page 41

The condition in which a set $\{P_0, P_1 \dots P_n\}$ of waiting processes must exist such that P_0 is waiting for a resource that is held by P_1 , P_1 is waiting for a resource that is held by P_2 , and so on, P_{n-1} is waiting for a resource held by P_n , and P_n is waiting for a resource held by P_0 .

This condition is known as _____.

A. Circular wait (Page 131)

Question No:229

(Marks:01)

Vu-Topper RM

Which of the following is not a major advantage of multi program system is.....

- Jobs can be completed quickly
- CPU utilization can be increases

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More than one jobs can be processed at a given time

If more process can exist, the rest must wait until the CPU is free and can be rescheduled Page 31

Question No:230

(Marks:01)

Vu-Topper RM

_____command in LINUX is used to copy file.

A. ls

B. cp Page 27

C. mv

D. mkdir

Question No:231

(Marks:01)

Vu-Topper RM

In critical section problem _____requirement illustrates that, "If no process is executing in its critical section and some processes wish to enter their critical sections, then only those processes that are not executing in their remainder section can participate in the decision on which will enter its critical section next, and this selection cannot be postponed indefinitely."

A. Progress Page 98 (New Mcqs)

B. Slow execution

C. Mutual exclusion

D. Bounded waiting

_____ are used by shell commands to pass data from one shell pipeline to another, without creating temporary files.

A. Pipes

B. FIFOs Page 58 (New Mcqs)

C. BSD sockets

D. Message queues

The basic purpose of _ is to help the users to utilize the hardware resources for completing different task in a simplified manner.

A. All software

B. Operating system Page 1

C. Application software

D. All of the given

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Which of the following are TRUE for direct communication?

- A. Exactly two links exist between each pair of processes
- B. A communication link can be associated with exactly two processes** **Page 44**
- C. A communication link can be associated with N number of process (N=maximum number of processes supported by system)
- D. Exactly $N/2$ links exist between each pair of processes(N=maximum number of processes supported by system)

Keeping in mind scheduling algorithm, when you go to any famous fast food franchise. On entering the store, each customer receive a number. The customer with a lowest number is served next. This algorithm is called___.

- A. Simple algorithm
- B. Bakery algorithm** **Page 102**
- C. Dijkstra's algorithm
- D. Deadlock algorithm

The wait operation of the Semaphore basically works on the basic _____systemcall.

- A. Wait()** **Page 111**
- B. Stop()
- C. Hold()
- D. Block()

When a process P1 switches from the running state to the waiting state because an I/O request is being completed .This scheduling is called-----

- A. Switching
- B. Preemptive
- C. Termination
- D. Non primitive** **Page 79** **(New Mcqs)**

Priority scheduling cannot be pre-emptive.

- A. True

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B. False

Page 83

C. Both

D. None

CPU bound processes are scheduled An operating system is easily portable between varying hardware designs in structural approach.

A. Virtual Machines

A. Simple

B. Layered

C. Micro kernal

Performance measures of scheduling before short or I/O bound processes in ___ scheduling, therefore, resulting in less CPU and device utilization.

A. FIRST COME FIRT SERVE

B. Round Robin

C. Shortest Job First

D. Shortest Remaining Time First

Performance measures of scheduling algorithms are calculated with _____ using Gantt charts, in order to evaluate an algorithm for a particular workload.

A. Simulation

B. Queuing Models

C. Analytic evaluation

D. Deterministic modeling

Page 92

(New Mcqs)

In the Bakery algorithm, processes are prioritized based on highest ticks among computing processes.

A. False

Page 102

B. True

C. Both

D. None

Consider a system of N processes ($P_0, P_1 \dots P_{n-1}$). Each process in it critical section and process may be changing common, updating a

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table.No other process is allowed to execute in its section. This problem is called_____.

- A. Bakery algorithm
- B. N-Mutual exclusion
- C. Deadlock algorithm

D. N-Process Critical Section

Page 102

_____ scheduling can be made into a processor sharing approach.

A. Round robin

Page 86

(New Mcqs)

- B. Shortest Job First
- C. First Come First serve
- D. Shortest remaining time

A thread shares its resources (like data section, code section, open files, signal) with_____

A. Other threads that belong to similar processes

B. Other thread that belongs to the same processes **Page 69**

- C. Other process similar to the one that the thread belongs to
- D. All

A program in execution is called a _____

A. Process

Page 12

- B. Software
- C. Compiler
- D. Command

CPU bound processes are scheduled before short or I/O bound processes in _____ scheduling, therefore, resulting in less CPU and device utilization.

A. Round Robin

B. Shortest Job First

C. First Come First Serve

Page 80

(New Mcqs)

D. Shortest Remaining Time First

A shell command mkfifo can be used to create a /an -----.

A. Pipe

B. Named pipe

Page 57

(New Mcqs)

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- C. Unnamed pipe
- D. Message queue

While using the read /write system call which data type is used to return the size of file to buffer from file descriptor fd?

- A. Fifo
- B. Ssized
- C. Pipefd

D. Ssize-Max **Page 45**

_____ multi-threading model provides full concurrency.

- A. One –to-One**
- B. One-to-Many
- C. Many-to-One
- D. Many-to-Many

Page 71

Preemptive SJF (Shorted Job First) scheduling is sometimes called _____ scheduling.

- A. Biggest time-first
- B. Shortest time-last
- C. Smallest time-first

D. Shortest remaining – time first **Page 82 (New Mcqs)**

Rather than maximizing CPU utilization and use of peripheral devices, __systems are for maximizing user convenience and responsiveness.

- A. Batch
- B. Single-user**
- C. Time-sharing
- D. Multi-user Batch

Page 4

Consider a scenario in which one process P1 enters in its critical section, no other process is allowed to execute in its critical section.

This is called

- A. Progress
- B. Multithreading

C. Mutual exclusion **Page 98**

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D. Context switching

Multilevel feedback scheduling allows a process to move between queues.

- A. List
- B. Time
- C. Array

D. Queue **Page 89** **(New Mcqs)**

Which process can be affected by other processes executing in the system?

- A. Init process
- B. Child process

C. Cooperating process **Page 41**

- D. Parent process

_____ are used to show executions of processes.

- A. Quantum
- B. Sequence
- C. Time slice

D. Gantt charts **Page 85** **(New Mcqs)**

The ready queue in RR (Round Robin) scheduling algorithm is referred to as _____.

- A. Time Slice
- B. Time Quantum

C. Circular queue **Page 85** **(New Mcqs)**

- D. LIFO (Last in First Out)

Linux redirection features can be used to _____ and attach other files with them for a single execution of a command.

- A. detach the default files from stdin and stderr
- B. detach the default files from stdout, and stderr

C. detach the default files from stdin stdout and stderr

- D. None of the these

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The time it takes for the dispatcher to stop one process and start another running is known as the

- A. Stop time
- B. Sleep time
- C. Dispatch time

D. Dispatch latency **Page 79** **(New Mcqs)**

In LINUX/UNIX environment Ali want to know the number of processes running on the system and their status, number of CPUs in the system and their usage, amount of main memory and its usage. Which of the following command will help in this regard?

- A. \$ ps
- B. \$ top**
- C. \$ gcc
- D. \$ fifo

Page 64

IN the result displayed by ls -l command, 5th column shows

- A. Owner of the file
- B. Time last updated
- C. File size in bytes**
- D. Group of the owner

Page 26

In the layered approach of operating system,

- A. Highest Layer(N) is the Hardware
- B. Bottom Layer(N) is the hardware
- C. Bottom Layer (0) is the user interface

D. Highest layer (N) is the user interface **Page 18**

A heavy weight processes _____.

- A. Multiple or single thread
- B. Has multiple threads of execution
- C. Has a single thread of execution**
- D. None of the these

Page 67

Is a solution of the problem of indefinite blockage of low-priority processes.

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A. Aging **Page 84**

- B. Deadlock
- C. Starvation
- D. None of these

FIFO's(also known as named pipes)are used for communication betweenUNIX/Linux system.

A. Parent-child

B. Related processes **Page 49**

- C. Unrelated processes
- D. Related and Unrelated

Which of the following conditions must be satisfied to solve the critical sectionproblem?

- A. Progress
- B. Bounded waiting
- C. Mutual Exclusion

D. All of the given **Page 98**

Which of the following of two operations are provided by the IPC facility?

- A. Send & Delete message
- B. Write & Delete message
- C. Delete & Receive message

D. Receive and send messages **Google**

Kill command is used to terminate a Access of variable semaphore is possible only through two atomic operation__and

A. Lock, Key

B. Wait, signal **Page 108**

- C. Boolean, integer
- D. Test And Set, Swap

Kill command is used to terminate a process. The syntax of the command is kill [-signal] PID When executed without a signal number, the command sends the _____signal to the process.

- A. SIGINT
- B. SIGKILL

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C. SIGTERM

Page 66

(New Mcqs)

D. None of the these

A ___ enables a user process to request the operating system to execute a privileged instruction for it

E. Trap Page 8

F. Interrupt

G. Library call

H. System Call

We can terminate a thread explicitly by either returning from the thread function or by using the ___ call.

A. win()

B. slow()

C. express()

D. pthread_exit()

Page 73

(New Mcqs)

Is not system call in Linux.

A. Read

B. Open

C. Mknod

D. MKfifo

Page 57

Is also called swapper.

A. Long term

B. Short term

C. Swap space

D. Medium term Page 34

Concurrent processes must be synchronized to prevent _____.

A. Waiting

B. Critical Section

C. Race condition

Page 96

(New Mcqs)

D. Mutual exclusion

In process management, some of the jobs can be suspended for some time in order to give other jobs a chance to be in execution. Which command can be used to place back a suspended program?

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- A. Ps
- B. Bg
- C. Fg
- D. Top

Page 65

(New Mcqs)

~symbol in the pathname ~/docs/cs604/handouts represented_.

- A. Root directory
- B. Child directory
- C. Login directory
- D. Parent directory

Page 22

In critical section problem _____ requirement illustrates that, “There exists a bound on the number of times that other processes are allowed to enter their critical sections after a process has made a request to enter its critical section and before that request is granted.”

- A. Progress
- B. Race Condition
- C. Mutual Exclusion
- D. Bounded waiting

Page 98

(New Mcqs)

Under _____ once the CPU has been allocated to a process the process keeps the CPU until either it switches to the waiting state, finishes its CPU burst, or terminates.

- A. Force scheduling
- B. Dynamic scheduling
- C. Preemptive scheduling

D. Non –preemptive scheduling

Page 79 (New Mcqs)

The round-robin RR scheduling algorithm is designed especially for_.

- A. Nice systems
- B. Batch system
- C. Single-user systems

D. Time sharing system

Page 85

All UNIX and LINUX systems have one thing in common which is_.

- A. Set of commands
- B. Set of instructions
- C. Set of text editors

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D. Set of system calls

Google

A ----- signal is generated when a write performed to fifo that no process is opened for reading.

A. SIGFIFO

B. SIGPIPE

Page 58

(New Mcqs)

C. Named PIPE

D. Unnamed PIPE

Consider a scenario of CPU protection, is added to the operating system in order to detect and avoid loop in a user program.

A. I/O

B. Timer

Page 11

C. Base and limit register

D. Turning interrupt enable off

Semaphore S is a/an__ type of variable to use as synchronization tool.

A. Float

B. Integer

Page 108

C. Double

D. Boolean

Clock interrupt handler is an example of kernel thread that is not executed for servicing a request by a user thread .It is named as -----

A. LWP

Page 72

(New Mcqs)

B. POSIX

C. EINVAL

D. EAGAIN

Which of the following command is used to read data from file named academics?

A. ran>academics

B. cat<academics

Page 55

C. con<academics

D. socket>academics

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We can use semaphore to deal with the number of ____ process critical section problem.

A. 1

B. N **Page 108**

C. n-1

D. 2n

Software section to critical section problem can run only in environment

A. Multiprocessor

B. Multithreading

C. Uniprocessor **Page 105**

D. Separate address spacing

View is that operating system is resource manager.

A. Top-down

B. Single-up

C. Down-up

D. Bottom -up **Page 3**

Co-operating process sharing a piece of code are executed periodically to solve

A. Aging problem

B. Waiting problem

C. Non-concurrency

D. Critical section problem **Page 97**

The section of code after the critical section is called _____.

A. Exit section

B. Entry section

C. Crystal section

D. Remainder section **Page 98**

Both in two atomic instructions TestAndSet and swap two critical section requirements are satisfied but not.

A. Progress

B. Assumptions

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C. Mutual exclusion
D. Bounded waiting

Page 106

TSL based solution can implement mutual exclusion, it abbreviates

A. Trap Set Solution
B. Test Set Instrument
C. Test Swap Instruction

D. Test and set instruction Page 106

To prevent a process from keeping CPU for too long, control is shifted to another ready process by invoking a timer_____.

A. When running process finishes its task.
B. When running process makes a system call.

C. Every time a process finishes its time slice. Page 11

D. Every time a free space is available in main memory.

P1,P2,P3,P4,P5 are five processes with tick numbers

P1=1,P2=2,P3=4,P4=2,P5=4 then considering Lamport's bakery algorithm _process enters criticalsection after

A. P1
B. P2
C. P3
D. P4

Four processes P1, P2, P3, P4 enter the ready queue at time 0 with burst times P1=3, P2=10, P3=4. Waiting time of P3 would be_.

A. 12
B. 13
C. 14
D. 17

(New Mcqs)

You can use the bg command to put the current or a suspended process into the background. What is the correct syntax of bg command from the following?

A. bg [%id]
B. bg [job#]

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C. bg [id#]

D. bg[%job-id]

The time interval from submission of a process to the timewhen its output is generated is termed as .

A. CPU burst

B. Throughput

C. Responsive time

D. Turnaround time

Page 80

(New Mcqs)

In LINUX directory structure, there is root directory.

A.1 Page 23

B.2

C.3

D.4

Critical section is a place where certain shared structure is updated. Its solution required certain precaution; one of them is the access to critical section by one process at a time only. What this condition is termed as?

A. Progress

B. Entry section

C. Bounded waiting

D. Mutual exclusion

Page 97

(New Mcqs)

In critical section problem, each process must first request permission to enter its critical section. The section of code implementing this request is called the_____.

A. Sub section

B. Exit section

C. Entry section

Page 97

(New Mcqs)

D. Remainder section

UNIX system V Scheduling algorithm in every second, the priority number of all those processes that are in the main memory and ready to run is updated by using the following formula:

A. Priority # = Threshold priority + nice

B. Priority # = (Recent CPU Usage)/2 + nice

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C. Priority # = (Recent CPU Usage)/2 + Threshold priority

D. Priority #=(Recent CPU Usage)/2+Threshold priority+nice

Page 90 (New Mcqs)

An acyclic graph does not allow directories to have shared subdirectories and files.

False

Linux OS can support multiple users at a time.

False

True

A modification of free-list approach in free space management is to store the addresses of n free blocks in the first free block, known as _____.

A. Grouping

Main memory is _____ memory.

A. Volatile

Which command display permissions and some other attributes for prog1.c in your current directory?

A. Page offset

_____ indicates size of the page table.

A. Page offset

The set of all physical addresses corresponding to the logical addresses is a _____ of the process.

A. Physical address space

When a _____ link is created, a directory entry for the existing file is created

A. Hard

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_____ consists of a large array of words or bytes, each with its own address.

A. Memory

Deadlock _____ provides a set of methods for ensuring that at least one of the necessary conditions cannot hold.

A. Prevention

If a process continues to fault, replacing pages, for which it then faults and brings back in right away. This high paging activity is called _____.

A. Thrashing

The _____ is a single program that produces an object file.

A. Compiler

The collection of processes that is waiting on the disk to be brought into the memory for execution forms the _____.

A. Input queue

Semaphores are used to synchronize _____ processes.

A. Concurrent

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

A. Illegal

The address generated by the CPU, after any indexing or other addressing-mode arithmetic, is called a _____ address, and the address it gets translated to by the MMU is called a _____ address.

A. Virtual, physical

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Deadlock can be deal with _____ ways.

3

The section of cose before the critical section is called

A. Entry Section

What do we name to an address that is generated by the CPU?

Logical address

Operating system enables the user to use the Hardware Resources.

A. True

B. False

Hardware provide basic computing resource.

A. True

B. False

Users are the People, machines or computers that uses the Hardware resources.

A. True

B. False

Application Programs are methods that enable the use of Hardware resources to solve the user's Problem.

A. True

False

The Top-down view is that it is a program that acts as an intermediary between a user of a computer and the computer hardware, and makes the computer system convenient to use.

A. True

B. False

The bottom-up view is that operating system is a resource manager who manages the hardware and software resources in the computer system.

A. True

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B. False

In Top-down OS, user simply give a Command and reset is done by the OS.

A. True

B. False

Operating System is the Manager of Hardware Resources.

A. True

B. False

In Layered Approach of OS, the Layer highest Layer is User Interface layer.

A. True

B. False

If a system is not in a safe state, there can be No deadlocks.

A. True

False(Page 137)

usr/include/sys/vusr.h is an example of _____ path

Absolute

The scheduling of _____ are done by the operating system.

A. Both kernel and user level thread

All threads within a process share the _____ address space.

A. Different

A process is said to be in critical section if it executes code that manipulates shared data

A. True

DOS is single user operating system.

A. True

Round Robin algorithm is similar to _____ scheduling but preemption is added to

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A. First Come First Server

The -----system call is used to open or create a file.

A. Open () Google

----- Threads are implemented by a thread library.

User thread pg 70

Linux is only single user operating system

False (Page# 4)

While using the read/write system call which data type is use to return the size of file to buffer from file descriptor fd? Select correct option:

A. Ssize_t (page45)

In Unix/Linux ----- are used for client server communication to pass data between a server process and client processes.

Select correct option:

FIFO (page 60)

A condition where a set of blocked processes each holding a resource and waiting to acquire a resource held by another process in the set is termed as _____.

A. Deadlock (Page 130)

The integer value of _____semaphores can range over an unrestricted integer domain.

A. Counting

What do we name to an address that is loaded into the memory-address register of the memory?

A. Physical address (Page 155)

Cache is non-volatile memory.

A. False (Page 153)

_____ algorithm is used in Deadlock avoidance.

A. Banker's (Page 139)

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The -----scheme is not applicable to a resource allocation system with multiple instances of each resource type.

A. Wait for graph (Page 148)

----- register contains the size of the process

A. Limit register (Page 13)

graph contains a _____

Cycle (Page 147)

Operating System provides services such as Managing Primary and Secondary Storage, Processes and Allowing user to manage his/her files and directories.

A. True (Page 5)

Starvation is infinite blocking caused due to unavailability of resources.

A. True (Page 115)

The integer value of _____ semaphores can not be greater than 1.

A. Binary (Page 117)

Banker's algorithm is used for _____

A. Deadlock avoidance (Page 140)

The _____ requires that once a writer is ready, that writer performs its write as soon as possible, if a writer waiting to access the object, no new readers may start reading.

second readers-writers problem (Page 119)

Each page is a power of ----- bytes long in paging scheme.

A. 4 (Page 167)

A page table needed for keeping track of pages of the page table is called -----

A. Page directory (Page 173)

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Physical memory is broken down into fixed-sized blocks, called-----
--- and Logical memory is divided
into blocks of the same size, called -----

A. Frames, pages (Page 165)

Binary semaphores are those that have only two values-----

A. 0 and 1 (Page 117)

The -----semaphore provides mutual exclusion for accesses to
the buffer pool and is initialized to
the value 1.

A. mutex (Page 118)

Which register holds the smallest legal physical memory address for a
process?

A. Base register (Page 13)

The number of processes completed per unit time is called

_____.

- A. Throughput** **Page 80** **(New Mcqs)**
B. Response time
C. Dispatch latency
D. Turn around time

_____ is used in real time operating systems.

- A. FCFS scheduling
B. Dispatching scheduling
C. Preemptive scheduling **(New Mcqs)**
D. Non-preemptive scheduling

Which of the following is a correct command line for running in
background?

- A. cat code.c | grep print @
B. cat code.c | grep print & **Page 62** **(New Mcqs)**
C. cat code.c | grep print #
D. cat code.c | grep print %

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Consider three processes in scheduling .Here are the waiting times for the three processes $P1 = 5$; $P2 = 10$; $P3 = 3$. Which one of the following is correct average waiting time per process?

- A. 2
- B. 3
- C. 6**
- D. 8

(New Mcqs)

_____ is not a system call in Linux.

- A. Read
- B. Open
- C. Mknod
- D. Mkfifo**

Page 57

(New Mcqs)

Processes $P1, P2, P3, P4$ enter the ready queue at times 0, 3, 3, 11 with burst times $P1=8, P2=2, P3=1, P4=1$. With Shortest Remaining Time First, _____ process is given CPU at time $T=3$.

- A. $P1$
- B. $P2$
- C. $P3$**
- D. $P4$

(New Mcqs)

The priority of a process can be changed using _____ command.

- A. Cat
- B. **Nice**
- C. Cmd
- D. Grep

(New Mcqs)

Processes $P1, P2, P3$ having burst times $P1=3, P2=4, P3=3$ and turnaround times $P1=7, P2=10, P3=9$ enter the ready queue at $T=0$. With RR scheduling, waiting time for process $P2$ would be _____.

- A. 0
- B. 3
- C. 4
- D. 6**

(New Mcqs)

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The problem with priority scheduling algorithm is _____.

- A. Aging
- B. Deadlock
- C. Nice value

D. Starvation

Page 83 (New Mcqs)

In process synchronization, if both the producer and consumer attempt to update the buffer concurrently, the machine language statements may get interleaved. Interleaving depends upon how the producer and consumer processes are _____.

- A. Stopped
- B. Separated

C. Scheduled

(New Mcqs)

D. Interrupted

_____ processes or threads often need access to shared data and shared resources.

- A. Single
- B. Parallel
- C. Temporary

D. Concurrent

Page 95 (New Mcqs)

In Unix/ Linux, by default the standard output file is attached to the _____

- A. File
- B. Printer

C. Screen

(New Mcqs)

D. Scanner

In round-robin (RR) scheduling algorithm, in case the time quantum is very large (infinite), the RR policy remains the same as the _____ policy.

- A. LIFO (Last in First out)
- B. SJF (Shorted Job First)

C. FCFS (First Come First Server)

Page 86 (New Mcqs)

D. SRTF (Shortest Remaining Time First)

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Critical section problem is to _____ the concurrent execution of cooperating process.

- A. Stop
- B. Start
- C. Update
- D. Serialize**

Page 102

(New Mcqs)

_____ is solution to the problem of indefinite blockage of low-priority processes.

- A. Aging**
- B. Sleeping
- C. Stopping
- D. Awakening

Page 84

(New Mcqs)

In multilevel queue-scheduling algorithm the highest priority is given to _____.

- A. batch processes
- B. system processes**
- C. interactive processes
- D. interactive editing processes

(New Mcqs)

Co-operating processes sharing a piece of code are executed periodically to solve _____.

- A. Aging problem
- B. Waiting problem
- C. Critical section problem**
- D. Non-concurrency problem

Page 97 (New Mcqs)

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