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VU Answer

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1 MB or 1 megabyte is equivalent to----

Answer (Please select your correct option)

1024 bytes

1024² bytes

1024³ bytes

1000000 bytes



A -----system collects physically separate, possibly heterogeneous, systems into a single coherent system, providing the user with access to the various resources that the system maintains

Answer (Please select your correct option)

Distributed



Real-time

Single user

Time-sharing



-----has a hierarchical file system structure.

Answer (Please select your correct option)

DOS

Windows

UNIX



None of the given options

Round-Robin Scheduling is a ----- scheduling algorithm

Answer (Please select your correct option)

- Preemptive
- non-preemptive
- Preemptive or non-preemptive.
- None of the given options



A piece of code in a cooperating process in which the process may update shared data is called-----

Answer (Please select your correct option)

Buffer

Critical section



Semaphore

None of the given options

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

Answer (Please select your correct option)

Progress

Bounded waiting

Mutual exclusion

None of the given



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

Answer (Please select your correct option)

critical section



critical region

monitor

all of the given are correct

Semaphore is a _____ solution to the synchronization problems.

Answer (Please select your correct option)

Operating system

Software

None of the given

Hardware



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

Answer (Please select your correct option)

Mouse

Keyboard

Light pen

Joystick

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

Answer (Please select your correct option)

None of the given

SSD socket

DSD socket

BSD sockets

The files which are automatically opened by the kernel for every process for the process to read its input from and send its output and error messages are called.....

Answer (Please select your correct option)

None of the given

Standard File descriptors

File descriptors

Standard files

Bounded Buffer is a buffer of _____ size

Answer (Please select your correct option)

Variable

Fixed

Both

None of the given

The goal of single user operating system is

Answer (Please select your correct option)

- To maximize utilization of CPU
- To maximize the user responsiveness
- To maximize utilization of peripheral devices
- To maximize throughput

Which type of operating system guarantees that critical tasks must be completed on time?

Answer (Please select your correct option)

Timesharing system

Multitasking system

Batch system

Realtime system



Made By: Waqar Siddhu

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

Answer (Please select your correct option)

con < academics

cat < academics

socket > academics

ran > academics



_____ command puts a foreground process into background.

Answer (Please select your correct option)

fg

bg

Ctrl z

None of the given



Given the gantt chart, which one of the following is average waiting time

Answer (Please select your correct option)

35.66

1.33

34.66

2.33



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

Answer (Please select your correct option)

Aging 

Starvation

Deadlock

None of the given

The part of machine level instruction, which tells the central processor what has to be done, is

Answer (Please select your correct option)



Address



Locator



Flip-Flop



Operation code

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Which of the following statements is false?

Answer (Please select your correct option)

Two different critical sections may be executed concurrently if they do not use the same shared variables.

Programs with critical sections can never be used simultaneously by more than one process.

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Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

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Answer (Please select your correct option)

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Ctrl z

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

Answer (Please select your correct option)



Interrupts



Registers



Digits



Words

Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

Made By: Waqar Siddhu

In ----- model, there is a kernel thread for every user thread

Answer (Please select your correct option)

Many-to-Many

None of the given options

One-to-One

Many-to-One

Correct Answer Solved By Hadi
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03228043306

Made By: Waqar Siddhu

A time interval when a process uses CPU only is called

Answer (Please select your correct option)

CPU burst

Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

IO burst

Scheduling

None of the given options

Made By: Waqar Siddhu

The part of the program where the shared memory is accessed is called -----

Answer (Please select your correct option)

Buffer

Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

Critical Section

Semaphore

None of the given options

Made By: Waqar Siddhu

Utilities used for system administration (halt, ifconfig, fdisk, etc.) are stored in _____ directory.

Answer (Please select your correct option)

/dev

/boot

/sbin

/lib

Correct Answer Solved By Hadi
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The Swap instruction which is the hardware solution to synchronization problem does not satisfy the _____ condition, hence not considered to be a good solution.

Answer (Please select your correct option)

- Progress
- Bounded waiting
- Mutual exclusion
- None of the given

Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

Made By: Waqar Siddhu

All ----- within a process share the same address space

Answer (Please select your correct option)

Threads

Correct Answer Solved By Hadi
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03228043306

Processes

CPU burst

IO Burst

Made By: Waqar Siddhu



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

Answer (Please select your correct option)



First Come First Serve, Round-Robin



Round-Robin, First Come First Serve

Correct Answer Solved By Hadi
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Round-Robin, Round-Robin



First Come First Serve, First Come First Serve

Made By: Waqar Siddhu

Priority of a process is ----- to the priority number of the process.

Answer (Please select your correct option)

Directly proportional

Equal

Inversely proportional

Greater

i think but not
sure

Made By: Waqar Siddhu



The 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.

Answer (Please select your correct option)

Top-down



Bottom-up



Alternate



None of the above



Correct Answer Solved By Hadi
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Made By: Waqar Siddhu



_____ commands in Linux helps to create a new directory.

Answer (Please select your correct option)

ls



cp



mv



mkdir



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

Made By: Waqar Siddhu



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

Answer (Please select your correct option)

Long term

Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

Short term

Medium term

Swapper

Made By: Waqar Siddhu

-----are used for communication between unrelated processes on a system.

Answer (Please select your correct option)

Pipes

Named pipe (FIFO):

BSD Sockets

none of the given options

Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

Made By: Waqar Siddhu

The syntax for output redirection is

Answer (Please select your correct option)

command < output-file

command >= output-file

command > output-file

command =< output-file

Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

Made By: Waqar Siddhu

The shared buffer can be implemented as a circular array with logical pointers.

Answer (Please select your correct option)

Five

Two

Three

Four

Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

Made By: Waqar Siddhu

Limit register contains

Answer (Please select your correct option)

The size of the process

Correct Answer Solved By Hadi
usmanraj20@gmail.com
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Starting address of the process

Address of the next instruction

Operand to be fetched

Made By: Waqar Siddhu



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

Answer (Please select your correct option)

con < academics

cat < academics

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Correct Answer Solved By Hadi
usmanraj20@gmail.com
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_____ command puts a foreground process into background.

Answer (Please select your correct option)

fg

bg

Ctrl z

None of the given

Correct Answer Solved By Hadi
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Made By: Waqar Siddhu



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

Answer (Please select your correct option)

Aging

Correct Answer Solved By Hadi
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Starvation

Deadlock

None of the given

Made By: Waqar Siddhu



What is the requirement for solution to critical section problem?

Answer (Please select your correct option)

Mutual Exclusion

Progress

Bounded Waiting

All of the given

Correct Answer Solved By Hadi
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Made By: Waqar Siddhu



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

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Interrupts

Registers

Digits

Words



In ----- model, there is a kernel thread for every user thread

Answer (Please select your correct option)

Many-to-Many

None of the given options

One-to-One



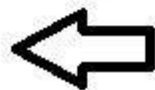
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IO burst

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

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All ----- within a process share the same address space

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Threads

Processes

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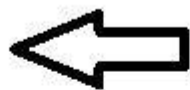
IO Burst

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

Answer (Please select your correct option)

First Come First Serve, Round-Robin

Round-Robin, First Come First Serve



Round-Robin, Round-Robin

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Priority of a process is ----- to the priority number of the process.

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Directly proportional

Equal

Inversely proportional

Greater

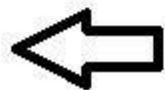
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The view is that it is a program that acts as an intermediary between a user of a computer and the computer hardware, and makes the computer system convenient to use.

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Top-down



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Alternate

None of the above



_____ commands in Linux helps to create a new directory.

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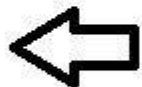
Medium term

Swapper

-----are used for communication between unrelated processes on a system.

Answer (Please select your correct option)

- Pipes
- Named pipe (FIFO):
- BSD Sockets
- none of the given options



The syntax for output redirection is

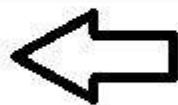
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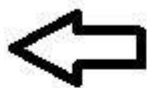
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Five

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Three

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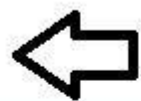
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_____command puts a foreground process into background.

Answer (Please select your correct option)

fg

bg

Ctrl z

None of the given



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

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What is the requirement for solution to critical section problem?

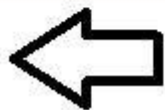
Answer (Please select your correct option)

Mutual Exclusion

Progress

Bounded Waiting

All of the given



Made By: Waqar Siddhu

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

Choices:

2

standard file descriptors.

Standard input: 0 (keyboard)

Standard output: 1 (display screen)

Standard error: 2 (display screen)

page 52

3



1

4

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

Choices: fork exec wait exit

Which one is not the state of the process?

Choices:

Waiting



Running



Privileged



New



To avoid the race condition, the number of processes that may be simultaneously inside their critical section is

Choices:

 8 1 16 0

_____ loads, verifies, and executes programs that have been translated into Java byte code.

Choices:

Java Virtual Machine

VMWare

VM Solution

VM PC

A time interval when a process uses CPU only is called _____.

Choices:

Scheduling

I/O burst

CPU burst

Dispatch latency

Round robin scheduling usually increases the average waiting time so its performance heavily depends upon _____.

Choices:

No. of processes

Time quantum

Switching

No. of queues



Due to which of the following reason, a parent may terminate the execution of one of its children.

Choices:

Use more resources than allocated

Busy other than assigned task

Start abnormal behavior

Many jobs in a system

Which of the following tool is used for inter process communication between related or unrelated processes on the same system or unrelated processes on different system over the network?

Choices:

 Pipe BSD socket Named pipe (FIFO) Message Queue

The files which are automatically opened by the kernel for every process to read its input from and send its output and error messages are called_____.

Choices:

File identifiers

Standard File descriptors

File descriptors

Standard files

In Unix/Linux client server process communication, server process runs in the background by terminating its command line with -----.

Choices:

 & @ % \$

Each thread has its own -----.

Choices:

Process ID (PID)

Address Space

Thread ID (TID)

Open file descriptors

Preemptive scheme of Short job first scheduling is known as -----.

Choices:

First Come First Serve Scheduling

Shortest-Remaining-Time-First

Priority Scheduling

Round-Robin Scheduling

A process terminates by calling the -----system call.

Choices:

wait



fork



exec



exit



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

Choices:

 open() read() write() close()

The syntax for input redirection is

Choices:

command < input-file

command > input-file

command >= input-file

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The syntax for output redirection is

Choices:

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

Choices:

Shortest Job First scheduling

First Come First Serve

Priority Scheduling

Round Robin Scheduling

Process synchronization is a process of helping processes to _____

Choices:

update the shared data simultaneously

update the shared data and resources in an orderly fashion

not to update the shared data or memory

access data and memory at first come first serve basis

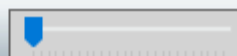
A parent process calling _____ system call will be suspended until any immediate child terminates.

Choices:

 wait fork exit exec

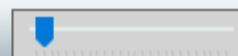
_____ commands in Linux is used to copy file

Choices:

 ls cp mv mkdir

Inter process communication (IPC) allows process to communicate and to synchronize their actions without sharing the same _____

Choices:

 Address space Messages Pipes Message Queue

Pipe system call is used to _____ a pipe

Choices:

Destroy

Create

Modify

Clear



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

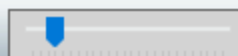
Choices:

con < academics

cat < academics

socket > academics

ran > academics



In a multithreaded model, Which one of the following provides true concurrency?

Choices:

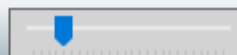
Many-to-one

One-to-one



Many-to-many

One-to-many



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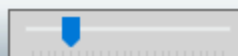
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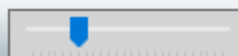
Choices:

Java Virtual Machine

VMWare

VM Solution

VMPC



_____ is the time taken for the dispatcher to stop one process and start another process.

Choices:

Dispatch latency

Scheduling

Context switching

Preemption



A time interval when a process uses CPU only is called _____.

Choices:

 Scheduling I/O burst CPU burst Dispatch latency

A time interval when a process uses I/O devices only is called _____.

Choices:

 CPU burst I/O burst Scheduling Context switching

While two processes in execution, only one can be in critical section at a time , this requirement is named as _____.

Choices:

Race condition

Mutual exclusion

Progress

Bounded waiting



The file descriptor for Standard Output (stdout) is -----.

Choices:

0

1

2

3



The file descriptor for Standard error (stderr) is -----.

Choices:

0

1

2

3



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

Choices:

 Pipes Message queues BSD sockets FIFOs

Preemptive -----scheduling is sometimes called
shortest-remaining-time-first scheduling.

Choices:

First-Come-First-Served (FCFS)

Round-Robin

Sorted Job First (SJF)

Priority



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

Choices:

First Come First Serve, Round-Robin

Round-Robin, First Come First Serve

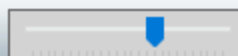
Round Robin, Round Robin

First Come First Serve, First Come First Serve



A process terminates by calling the -----system call.

Choices:

 wait fork exec exit

The syntax for input redirection is

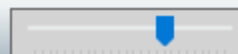
Choices:

command < input-file

command > input-file

command >= input-file

command =< input-file



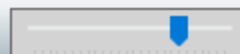
A _____ is a piece of code in a cooperating process in which the process may update shared data (variable, file, database, etc.).

Choices:

 critical section critical region monitor semaphore

A parent process calling _____ system call will be suspended until any immediate child terminates.

Choices:

 wait fork exit exec

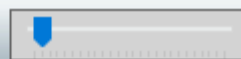
_____ commands in Linux is used to copy file

Choices:

 ls cp mv mkdir

Inter process communication (IPC) allows process to communicate and to synchronize their actions without sharing the same _____

Choices:

 Address space Messages Pipes Message Queue

Pipe system call is used to _____ a pipe

Choices:

Destroy

Create



Modify

Clear

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

Choices:

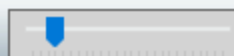
con < academics

cat < academics

socket > academics

ran > academics

Correct Answer Solved By Hadi
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03228043306



In a multithreaded model, Which one of the following provides true concurrency?

Choices:

Many-to-one

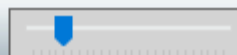
One-to-one

Many-to-many

One-to-many



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306



In _____ model, there is a kernel thread for every user thread.

Choices:

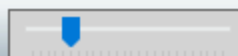
One-to-one

Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

Many-to-one

Many-to-many

One-to-many



_____ loads, verifies, and executes programs that have been translated into Java byte code.

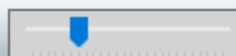
Choices:

Java Virtual Machine

VMWare

VM Solution

VMPC



_____ is the time taken for the dispatcher to stop one process and start another process.

Choices:

Dispatch latency

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Scheduling

Context switching

Preemption



A time interval when a process uses CPU only is called _____.

Choices:

 Scheduling I/O burst CPU burst Dispatch latency

A time interval when a process uses I/O devices only is called _____.

Choices:

 CPU burst I/O burst Scheduling Context switching

While two processes in execution, only one can be in critical section at a time , this requirement is named as _____.

Choices:

Race condition

Mutual exclusion

Progress

Bounded waiting



The file descriptor for Standard Output (stdout) is -----.

Choices:

0

1

2

3

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The file descriptor for Standard error (stderr) is -----.

Choices:

0

1

2

3

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

Choices:

 Pipes Message queues BSD sockets FIFOs

Preemptive -----scheduling is sometimes called **shortest-remaining-time-first** scheduling.

Choices:

First-Come-First-Served (FCFS)

Round-Robin

Sorted Job First (SJF)

Priority



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

Choices:

First Come First Serve, Round-Robin

Round-Robin, First Come First Serve

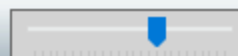
Round Robin, Round Robin

First Come First Serve, First Come First Serve



A process terminates by calling the -----system call.

Choices:

 wait fork exec exit

The syntax for input redirection is

Choices:

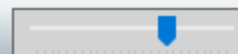
command < input-file

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command > input-file

command >= input-file

command =< input-file



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

Choices:

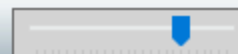
 critical section critical region monitor semaphore

A parent process calling _____ system call will be suspended until any immediate child terminates.

Choices:

 wait

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 fork exit exec

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

Choices:

2

standard file descriptors.

Standard input: 0 (keyboard)

Standard output: 1 (display screen)

Standard error: 2 (display screen)

page 52

3



1

4

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

Choices: fork exec wait exit

Which one is not the state of the process?

Choices:

Waiting



Running



Privileged



New



To avoid the race condition, the number of processes that may be simultaneously inside their critical section is

Choices:

 8 1 16 0

_____ loads, verifies, and executes programs that have been translated into Java byte code.

Choices:

Java Virtual Machine

VMWare

VM Solution

VM PC

A time interval when a process uses CPU only is called _____.

Choices:

Scheduling

I/O burst

CPU burst

Dispatch latency

Round robin scheduling usually increases the average waiting time so its performance heavily depends upon _____.

Choices:

No. of processes

Time quantum

Switching

No. of queues

Due to which of the following reason, a parent may terminate the execution of one of its children.

Choices:

Use more resources than allocated

Busy other than assigned task

Start abnormal behavior

Many jobs in a system

Which of the following tool is used for inter process communication between related or unrelated processes on the same system or unrelated processes on different system over the network?

Choices:

 Pipe BSD socket Named pipe (FIFO) Message Queue

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The files which are automatically opened by the kernel for every process to read its input from and send its output and error messages are called_____.

Choices:

File identifiers

Standard File descriptors

File descriptors

Standard files

In Unix/Linux client server process communication, server process runs in the background by terminating its command line with -----.

Choices:

 & @ % \$

Each thread has its own -----.

Choices:

Process ID (PID)

Address Space

Thread ID (TID)

Open file descriptors

Preemptive scheme of Short job first scheduling is known as -----.

Choices:

First Come First Serve Scheduling

Shortest-Remaining-Time-First

Priority Scheduling

Round-Robin Scheduling

A process terminates by calling the -----system call.

Choices:

wait

fork

exec

exit

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

Choices:

 open() read() write() close()

The syntax for input redirection is

Choices:

command < input-file

command > input-file

command >= input-file

command =< input-file

The syntax for output redirection is

Choices:

command < output-file

command >= output-file

command > output-file

command =< output-file

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

Choices:

Shortest Job First scheduling

First Come First Serve

Priority Scheduling

Round Robin Scheduling

Process synchronization is a process of helping processes to _____

Choices:

update the shared data simultaneously

update the shared data and resources in an orderly fashion

not to update the shared data or memory

access data and memory at first come first serve basis

A parent process calling _____ system call will be suspended until any immediate child terminates.

Choices:

 wait

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 fork exit exec