

\_\_\_\_\_ commands in Linux is used to copy file

Choices:


- ls
- cp 
- mv
- mkdir

TIME LEFT  
17



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

Choices:

- Address space 
- Messages
- Pipes
- Message Queue

TIME LEFT  
17



Pipe system call is used to \_\_\_\_\_ a pipe

Choices:

Destroy

Create



Modify

Clear

TIME LEFT

17



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

Choices:

con < academics

cat < academics



Correct Answer Solved By Hadi  
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socket > academics

ran > academics

TIME LEFT

17

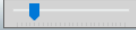






In a multithreaded model, Which one of the following provides true concurrency?

Choices:

- Many-to-one
- One-to-one 
- Many-to-many
- One-to-many

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TIME LEFT 17        

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

Choices:

- One-to-one
- Many-to-one
- Many-to-many
- One-to-many

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TIME LEFT 17        

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

Choices:

Java Virtual Machine

VMWare

VM Solution

VM PC

TIME LEFT

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

Choices:

Dispatch latency

Scheduling

Context switching

Preemption

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TIME LEFT

16



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

Choices:

Scheduling

I/O burst

CPU burst

Dispatch latency

TIME LEFT

16



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

Choices:

CPU burst

I/O burst

Scheduling

Context switching

TIME LEFT

16



Operating Systems (CS604)

Question: 11 (Marks: 1)

Attempted Questions: 25 Total Questions: 26

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

TIME LEFT

16

Operating Systems (CS604)

Question: 12 (Marks: 1)

Attempted Questions: 25 Total Questions: 26

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

Choices:

0

1

2

3

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TIME LEFT

16

Operating Systems (CS604)

Question: 13 (Marks: 1)

Attempted Questions: 25 Total Questions: 26

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

Choices:

- 0
- 1
- 2
- 3

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TIME LEFT  
16

Navigation icons: back, forward, search, and other controls.

Operating Systems (CS604)

Question: 14 (Marks: 1)

Attempted Questions: 25 Total Questions: 26

----- 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



TIME LEFT  
16

Navigation icons: back, forward, search, and other controls.

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

Choices:

First-Come-First-Served (FCFS)

Round-Robin

Sorted Job First (SJF)



Priority

TIME LEFT

16



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

TIME LEFT

16



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

Choices:

wait

fork

exec

exit

TIME LEFT

16

The syntax for input redirection is

Choices:

command < input-file

command > input-file

command >= input-file

command =< input-file

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TIME LEFT

16

Operating Systems (CS604)

Question: 19 (Marks: 1)

Attempted Questions: 25 Total Questions: 26

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

TIME LEFT

16



Operating Systems (CS604)

Question: 20 (Marks: 1)

Attempted Questions: 25 Total Questions: 26

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

Choices:

wait

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fork

exit

exec

TIME LEFT

16



Operating Systems (CS604)

Question: 21 (Marks: 2)

Attempted Questions: 25 Total Questions: 26

Let us consider a situation in which each process gets a small unit of CPU time, called *time slice* or *quantum*, which is usually 10-100 milliseconds. After this time has elapsed, the process is preempted and added to the end of the ready queue. Which scheduling algorithm is best suited for above situation?

Answer:



TIME LEFT  
16



Operating Systems (CS604)

Question: 22 (Marks: 2)

Attempted Questions: 25 Total Questions: 26

Process can run either as background process or as foreground process. If there is a process which is in the suspended state and working in background, you wanted to display the status of suspended and background process in a UNIX/LINUX shell. Which command will you use?

Answer:



Moving a process into foreground: fg [%job\_id]  
where, job\_id is the job ID (not process ID) of the suspended or background process. If %job\_id is omitted, the current job is assumed.  
Moving a process into background: bg [%job\_id]  
If %job\_id is omitted the current job is assumed.

TIME LEFT  
16



Open sources software's are continuously upgraded by different developers. How Open Source Software has made it possible for us to test various algorithms instead of pirated software's?

Answer:



TIME LEFT  
16



What is the function of following command in Linux/ Unix:

- a) command `ls > abc.txt`
- b) `cat < fileName.txt`

Answer:



Answer: (a) command `ls > abc.txt` :  
Without an argument of `ls` commands it assumes your current working directory. So if we run the `ls` command right after login, it will displays names of files and directories in our home directory.  
(b) `cat < fileName.txt`.

TIME LEFT  
16



There are five processes given below with their run time units. Assume that all processes arrive in numerical order at time 0 then answer the questions given below:

Process ID	CPU Requirements
P <sub>1</sub>	5
P <sub>2</sub>	4
P <sub>3</sub>	2
P <sub>4</sub>	1
P <sub>5</sub>	8

Show the scheduling order for these processes under first-come-first-served, shortest-job first, and round-robin scheduling (quantum = 2).

Answer: