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Best of luck!

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Virtual University Overseas Examination System V2.0 (x64)

Operating Systems (CS604)

Question: 1 (Marks: 1) **Attempted Questions: 25** **Total Questions: 26**

_____ commands in Linux is used to copy file

Choices:

- ls
- cp
- mv
- mkdir

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Question: 2 (Marks: 1) **Attempted Questions: 25** **Total Questions: 26**

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

Choices:

- (•) Address space ⇦
- ( ) Messages
- ( ) Pipes
- ( ) Message Queue

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Question: 3 **(Marks: 1)** **Attempted Questions: 25** **Total Questions: 26**

Pipe system call is used to _____ a pipe

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Choices:

- Destroy
- Create 
- Modify
- Clear

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Question: 4 **(Marks: 1)** **Attempted Questions: 25** **Total Questions: 26**

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

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Choices:

- con < academics
- cat < academics
- socket > academics
- ran > academics

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Question: 5 **(Marks: 1)** **Attempted Questions: 25** **Total Questions: 26**

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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Question: 6 **(Marks: 1)** **Attempted Questions: 25** **Total Questions: 26**

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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Question: 7 **(Marks: 1)** **Attempted Questions: 25** **Total Questions: 26**

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

Choices:

- (●) Java Virtual Machine
- ( ) VMWare
- ( ) VM Solution
- ( ) VM PC

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Question: 8 (Marks: 1) Attempted Questions: 25 Total Questions: 26

_____ 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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Question: 9 **(Marks: 1)** **Attempted Questions: 25** **Total Questions: 26**

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

Choices:

- Scheduling
- I/O burst
- CPU burst
- Dispatch latency

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Question: 10 (Marks: 1) **Attempted Questions: 25** **Total Questions: 26**

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

Choices:

- CPU burst
- I/O burst
- Scheduling
- Context switching

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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

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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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Question: 13 (Marks: 1) **Attempted Questions: 25** **Total Questions: 26**

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

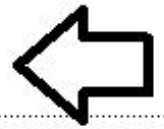
Choices:

0

1

2

3



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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



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Question: 15 (Marks: 1) **Attempted Questions: 25** **Total Questions: 26**

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

Choices:

- First-Come-First-Served (FCFS)
- Round-Robin
- Sorted Job First (SJF)
- Priority

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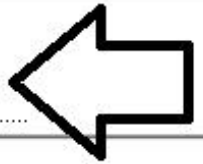
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Question: 16 (Marks: 1) **Attempted Questions: 25** **Total Questions: 26**

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

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Question: 17 (Marks: 1) **Attempted Questions: 25** **Total Questions: 26**

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

Choices:

- wait
- fork
- exec
- exit

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Question: 18 (Marks: 1) **Attempted Questions: 25** **Total Questions: 26**

The syntax for input redirection is

.....

Choices:

- command < input-file



Correct Answer Solved By Hadi
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- command > input-file
- command >= input-file
- command =< input-file

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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

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Question: 20 (Marks: 1) **Attempted Questions: 25** **Total Questions: 26**

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

Choices:

- wait
- fork
- exit
- exec



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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:

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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.

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Question: 23 (Marks: 3) **Attempted Questions: 25** **Total Questions: 26**

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:

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Question: 24 (Marks: 3) Attempted Questions: 25 Total Questions: 26

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:

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Operating Systems (CS604)

Question: 25 (Marks: 5) **Attempted Questions: 25** **Total Questions: 26**

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_1	5
P_2	4
P_3	2
P_4	1
P_5	8

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

Answer:

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