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TEAM HADI(VU LAHORE)

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WARNING: Team HADI is not responsible for any mistake or wrong answer. All students reading and using this document may check and confirm the answers at their own.



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Best of luck!



Operating Systems (CS604)

Question: 1 (Marks: 1)

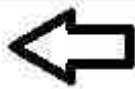
Attempted Questions: 25 Total Questions: 26

_____ commands in Linux is used to copy file

Choices:

☐ ls

☒ cp



☐ mv

☐ mkdir

TIME LEFT

17

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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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Pipe system call is used to _____ a pipe

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Choices:

☐ Destroy

☒ Create

☐ Modify

☐ Clear



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

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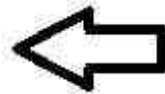
Choices:

☒ 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?

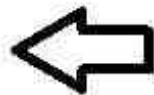
Choices:

☐ Many-to-one

☐ One-to-one

☒ Many-to-many

☐ One-to-many



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Operating Systems (CS604)

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

TIME LEFT

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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 -----.

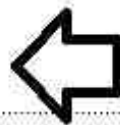
Choices:

☐ 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

☐

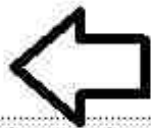
1

☐

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.

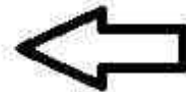
Choices:

☐ First-Come-First-Served (FCFS)

☐ Round-Robin

☒ Sorted Job First (SJF)

☐ Priority



TIME LEFT

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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.

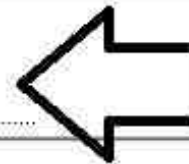
Choices:

☐ First Come First Serve, Round-Robin

☒ Round-Robin, First Come First Serve

☐ Round Robin, Round Robin

☐ First Come First Serve, First Come First Serve



TIME LEFT

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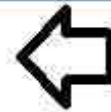
Question: 17 (Marks: 1)

Attempted Questions: 25 Total Questions: 26

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

Choices:

☒ wait



☐ fork

☐ exec

☐ exit

TIME LEFT

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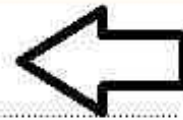
Question: **18** (Marks: 1)

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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03228043306

☐ command > input-file

☐ command >= input-file

☐ command =< input-file

TIME LEFT

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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

TIME LEFT

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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 immediate child terminates.

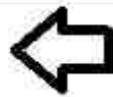
Choices:

☐ wait

Correct Answer Solved By Hadi
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☐ fork

☒ exit



☐ exec

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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

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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

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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:



TIME LEFT

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Operating Systems (CS604)

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`:

TIME LEFT

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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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