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EMAIL-hadirajputofficial@gmail.com
WHATSAPP& CALL-03087122922

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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.



WhatsApp:03087122922



FACEBOOK ID: <https://www.facebook.com/hadipastpapers/>

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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Operating Systems (CS604)

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

TIME LEFT

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

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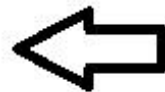
Choices:

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

TIME LEFT

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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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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

TIME LEFT

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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



TIME LEFT

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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 -----.

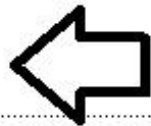
Choices:

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.

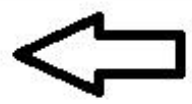
Choices:

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

Choices:

wait



fork

exec

exit

TIME LEFT

16

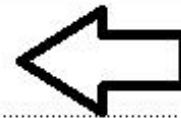
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The syntax for input redirection is

Choices:

command < input-file



Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

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

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.

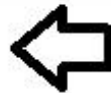
Choices:

wait

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03228043306

fork

exit



exec

TIME LEFT

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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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Operating Systems (CS604)

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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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 display 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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