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MID TERM PAST PAPER

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Best of luck!

PAST PAPER

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Operating Systems (CS604)

Question: 1 (Marks: 1) Attempted Questions: 22 Total Questions:

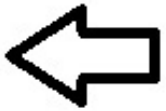
When process opens its first file explicitly it will get descriptor number _____

Choices:

2

standard file descriptors.
Standard input: 0 (keyboard)
Standard output: 1 (display screen)
Standard error: 2 (display screen)
page 52

3



1

4

TIME LEFT

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Question: 2 (Marks: 1) Attempted Questions: 22 Total Questions: 2

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

Choices:

- fork
- exec
- wait
- exit

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Question: 3 (Marks: 1) Attempted Questions: 22 Total Questions: 26

Which one is not the state of the process?

Choices:

- Waiting
- Running
- Privileged
- New

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Question: 4 (Marks: 1) Attempted Questions: 22 Total Questio

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

Choices:

8

1

16

0

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Question: 5 (Marks: 1) Attempted Questions: 22 Total Questions:

_____ 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: 6 (Marks: 1) Attempted Questions: 22 Total Questions:

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: 7 (Marks: 1) Attempted Questions: 22 Total Questions: 2

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

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TIME LEFT

18

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Question: 8 (Marks: 1) Attempted Questions: 22 Total Questions: 2

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

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Question: 9 (Marks: 1) Attempted Questions: 22 Total Questic

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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TIME LEFT

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Question: 10 (Marks: 1) Attempted Questions: 22 Total Questions: 26

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

  .....

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Question: 11 (Marks: 1) Attempted Questions: 22 Total Questions: 26

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

Choices:

- & (selected)
- @
- %
- $

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TIME LEFT 17

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Question: 12 (Marks: 1) Attempted Questions: 22 Total Questio

Each thread has its own ----------.

Choices:

- Process ID (PID)
- Address Space
- Thread ID (TID)
- Open file descriptors

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Question: 13 (Marks: 1) Attempted Questions: 22 Total Questions: 26

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

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Question: 14 (Marks: 1) Attempted Questions: 22 Total Questions: 26

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

Choices:

- wait
- fork
- exec
- exit

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Question: 15 (Marks: 1) Attempted Questions: 22 Total Questions:

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

Choices:

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

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Question: 16 (Marks: 1) Attempted Questions: 22 Total Questions:

The syntax for input redirection is

.....

Choices:

- command < input-file

.....

- command > input-file

.....

- command >= input-file

.....

- command =< input-file

.....

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Question: 17 (Marks: 1) Attempted Questions: 22 Total Questions: 26

The syntax for output redirection is

.....

Choices:

- command < output-file

  .....

- command >= output-file

  .....

- command > output-file

  .....

- command =< output-file

  .....

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Question: 18 (Marks: 1) Attempted Questions: 22 Total Questions:

_____ 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

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Question: 19 (Marks: 1) Attempted Questions: 22 Total Questions: 2

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

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Question: 20 (Marks: 1) Attempted Questions: 23 Total Questions: 26

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

Choices:

wait

fork

exit

exec

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Question: 21 (Marks: 2)

Write the code to create a thread, take thread ID in thread named as newThread and run Mythread function.

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Question: 22 (Marks: 2) Attem

A CPU scheduler has different evaluation matrices and average waiting time is one of them. State how **Waiting time** relates to the evaluation of matrices with respect to CPU Scheduling?

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Question: 23 (Marks: 3)

The mknod() system call may fail due to different reasons. You are required to identify at least three failure scenarios in which mknod() system call fails to execute.

.....

Answer:

Some of the scenarios are :
When the file with given name is exists

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Question: 24 (Marks: 3)

What will happen if exit () is called instead of pthread_exit () in multithreaded system?

.....

Answer:

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Operating Systems (CS604)

Question: 25 (Marks: 5)

While processing a job it is possible that each process is executed and managed independently but sometimes it gives overhead to OS. Highlight the issues that can come across while managing a process independently and how the threads can help to overcome these issues? Write at least three aspects used by thread to overcome these issues.

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Question: 26 (Marks: 5)

Consider performance of FCFS algorithm for three computer-bound processes. If process P1 takes 24 seconds, P2 takes 3 seconds and P3 takes 3 seconds and processes arrive in the given order P1, P2, P3. You need to calculate the following:

a) **Turnaround Time per process.**
b) **Average Turnaround time of processes**

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