

VIRTUAL UNIVERSITY OF PAKISTAN

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TEAM HADI(VU LAHORE)

MID TERM PAST PAPER

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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!



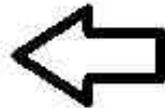
When process opens its first file explicitly it will get descriptor number _____

Choices:

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

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☒ 3



☐ 1

☐ 4

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

Choices:

☒ fork☐ exec☐ wait☐ exit

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Which one is not the state of the process?

Choices:

☐ Waiting

☐ Running

☒ Privileged

☐ New

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

Choices:

☐ Scheduling☐ I/O burst☒ CPU burst☐ Dispatch latency

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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

TIME LEFT

18

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Due to which of the following reason, a parent may terminate the execution of one of its children.

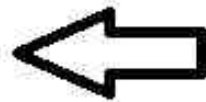
Choices:☒ Use more resources than allocated☐ Busy other than assigned task☐ Start abnormal behavior☐ Many jobs in a system

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

Choices:

☒ &☐ @☐ %☐ \$

Each thread has its own -----.

Choices:

Process ID (PID)



Address Space



Thread ID (TID)



Open file descriptors



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

Choices:

☐ wait☐ fork☒ exec☐ exit

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

Choices:

☒ open()☐ read()☐ write()☐ close()

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The syntax for input redirection is

Choices:

☒ command < input-file

☐ command > input-file

☐ command >= input-file

☐ command =< input-file

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The syntax for output redirection is

Choices:

☐ command < output-file

☐ command >= output-file

☒ command > output-file

☐ command =< output-file

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_____ 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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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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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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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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Operating Systems (CS604)

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

Operating Systems (CS604)

Question: **24** (Marks: 3)

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

Answer:



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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Operating Systems (CS604)

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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