Grand Quiz Spring 2021

Subject Code CS604 lecture 1 to 22

Solved by Riz Mughal

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I'm providing 100% correct quiz solution. You can visit my YouTube channel and get more information about all other subjects' quizzes and final year project (CS619).

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RIZ MUGHAL (SQA ENGINEER)

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CS604:Grand Quiz

Quiz Start Time: 10:00 AM, 24

Question # 1 of 30 (Start time: 10:00:25 AM, 24 June 2021) **Tot**

Which of the following statement is not true regarding the Cooperating processes?

Select the correct option

- ○ It provides an environment to run parallel processes to speedup computation.
- ● It may affect or be affected by any other process executing in the system.
- ○ It constructs the system in a modular fashion, dividing the system functions into separate processes or threads.
- ○ It provides an environment to allow concurrent users to access same resources.

CS604:Grand Quiz

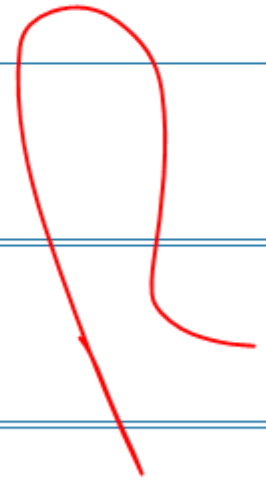
Quiz Start Time: 10:00 AM, 2

Question # 2 of 30 (Start time: 10:01:37 AM, 24 June 2021)

Using hardware solution to synchronization for complex problems, introduce a new synchronization tool know as _____

Select the correct option

- Trap
- TestAndSet
- Swap
- Semaphore



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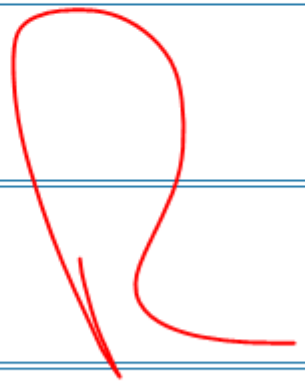
Quiz Start Time: 10:00 AM, 24 June 20

Question # 3 of 30 (Start time: 10:01:59 AM, 24 June 2021) **Total Marks**

In round-robin (RR) scheduling algorithm the CPU scheduler goes around the ready queue, allocating the CPU to each process for a time interval of up to ____ time quantum.

Select the correct option

- ○ 3
- ○ 2
- ○ 4
- ● 1



CS604:Grand Quiz

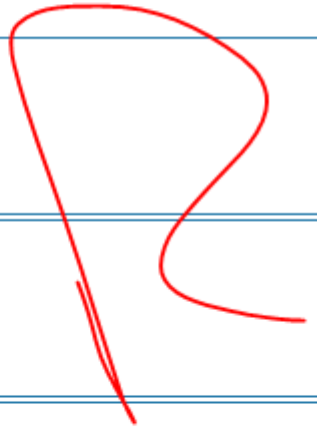
Quiz Start Time:

Question # 4 of 30 (Start time: 10:02:14 AM, 24 June 2021)

A shell command mkfifo can be used to create a /an ----------.

Select the correct option

- (●) Named pipe
- ( ) Pipe
- ( ) Unnamed pipe
- ( ) Message queue



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Quiz Start Time: 10:00 AM, 24 June 20

Question # 5 of 30 (Start time: 10:02:28 AM, 24 June 2021)

Total Mark

P1, P2, P3, P4, P5 are five processes with ticket numbers P1=1, P2=2, P3=4, P4=2, P5=4 then considering Lamport's bakery algorith
_____ process enters critical section after P1.

Select the correct option

- ○ P4
- ● P2
- ○ P5
- ○ P3

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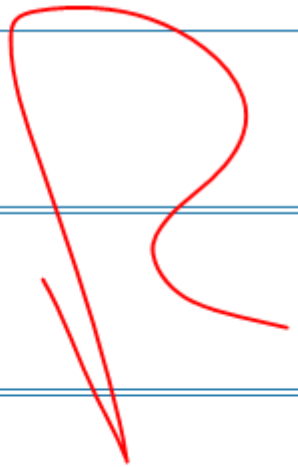
Quiz Start Time: 1(

Question # 6 of 30 (Start time: 10:02:43 AM, 24 June 2021)

After fork() system call is made, parent and child process have their separate copy of _____.

Select the correct option

- ○ Environment
- ○ File mode creation mask
- ● File descriptors
- ○ Nice value



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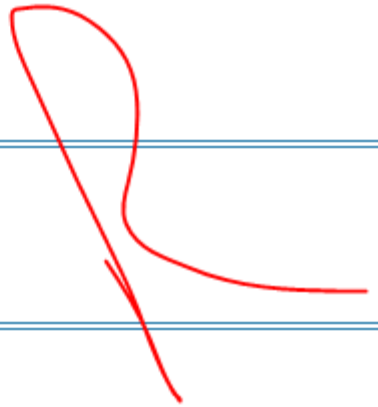
Question # 7 of 30 (Start time: 10:02:58 AM, 24 June 2021)

A major problem with priority- scheduling algorithms is _____.

Select the correct option

- termination
- conclusion
- starvation
- aging



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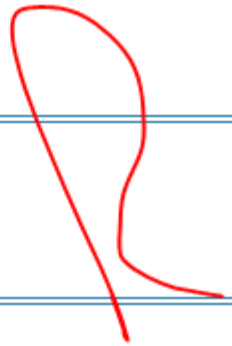
Quiz Start Time:

Question # 8 of 30 (Start time: 10:03:14 AM, 24 June 2021)

The _____ system call suspends the calling process until one of the immediate children terminate.

Select the correct option

- ○ Interrupt
- ○ Trap
- ○ Signal
- ● Wait



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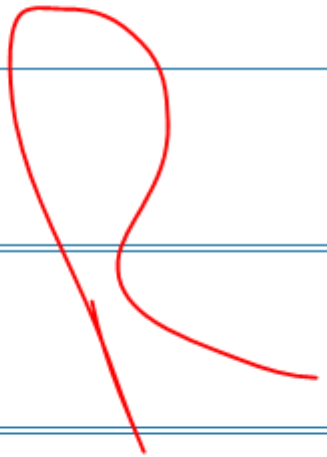
Question # 9 of 30 (Start time: 10:03:28 AM, 24 June 2021)

The priority of a process can be changed using _____ command.

Select the correct option

- nice
- grep
- cat
- cmd



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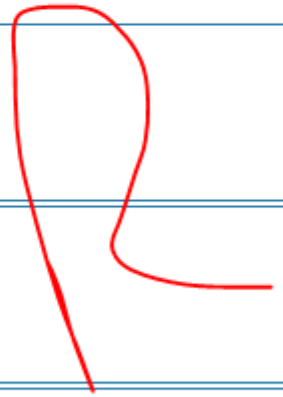
Question # 10 of 30 (Start time: 10:03:45 AM, 24 June 2021)

In multilevel queue-scheduling algorithm the highest priority is given to _____.

Select the correct option

- (●) system processes
- ( ) interactive editing processes
- ( ) batch processes
- ( ) interactive processes



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Quiz Start Time: 10:00 AM, 24 Ju

Question # 11 of 30 (Start time: 10:04:35 AM, 24 June 2021)

Total

You can use the bg command to put the current or a suspended process into the background. What is the correct syntax of bg command from the following _____.

Select the correct option

- bg [job#]
- bg [%job_id]
- bg [%id]
- bg [id#]

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Quiz Start Time: 10:00 AM, 24 Jun

Question # 12 of 30 (Start time: 10:04:48 AM, 24 June 2021)

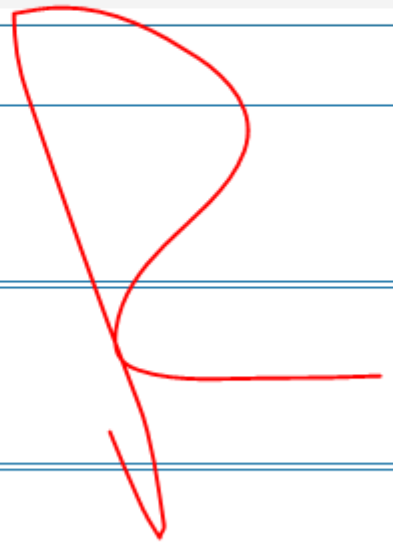
Total M

Given below two statements can be categorized in some sort of message passing techniques. This type is named as _____

- Send (A, message)
- Receive (B, message)

Select the correct option

- (●) Direct communication
- ( ) Send by copy commuincation
- ( ) Explicit buffering
- ( ) Synchronization



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Question # 13 of 30 (Start time: 10:05:04 AM, 24 June 2021)

To display all processes _____ option is used with ps command.

Select the correct option

- -l
- -e
- -u
- -a

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Quiz Start Time: 10:00 AM, 24 June

Question # 14 of 30 (Start time: 10:05:20 AM, 24 June 2021)

Total Ma

The BSD sockets are used for communication between related or unrelated processes on the same system or _____on different systems.

Select the correct option

- ○ Sibling Process
- ○ Related processes
- ○ Both related and unrelated processes
- ● Unrelated processes

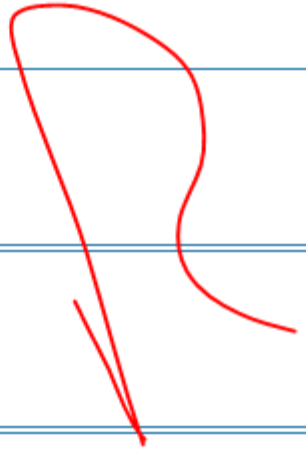
CS604:Grand Quiz **Quiz Start Time: 10:00 AM**

Question # 15 of 30 (Start time: 10:05:36 AM, 24 June 2021)

In hardware multiprocessor environment two instructions are executed _____ which are swap and TestAndSet.

Select the correct option

- By force
- Manually
- Atomically
- Automatically



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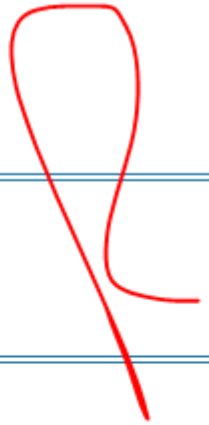
Question # 16 of 30 (Start time: 10:05:54 AM, 24 June 2021)

rmkdir command is used to _____ an empty directory.

Select the correct option

- ○ Move
- ○ Create
- ● Remove
- ○ Modify



CS604:Grand Quiz

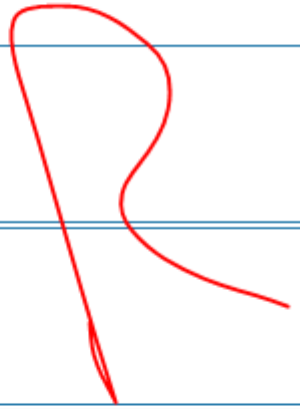
Quiz Start Time: 10:00 AM, 24 June 202

Question # 17 of 30 (Start time: 10:06:21 AM, 24 June 2021) **Total Marks:**

Ali is an operating system designer. One user requirement regarding OS is easy to debug and modify. In your opinion which one of the following OS structure Ali needs to follow?

Select the correct option

- ○ Virtual Machines
- ○ Simple OS Approach
- ● Layered Approach
- ○ Micro kernels



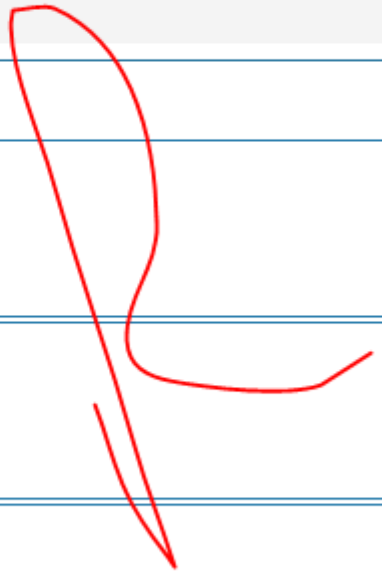
CS604:Grand Quiz

Question # 18 of 30 (Start time: 10:06:35 AM, 24 June 2021)

The file descriptor for Standard Input (stdin) is _____

Select the correct option

- ○ 2
- ○ 3
- ○ 1
- ● 0



CS604:Grand Quiz

Quiz Start Time: 10:00 AM, 24 June 20

Question # 19 of 30 (Start time: 10:06:50 AM, 24 June 2021)

Total Marks

UNIX System V Scheduling Algorithm in every second, the priority number of all those processes that are in the main memory and ready to run is updated by using the following formula:

Select the correct option

- ○ Priority # = (Recent CPU Usage)/2 + Threshold Priority + nice
- ○ Priority # = (Recent CPU Usage)/2 + nice
- ● Priority # = Threshold Priority + nice
- ○ Priority # = (Recent CPU Usage)/2 + Threshold Priority

CS604:Grand Quiz

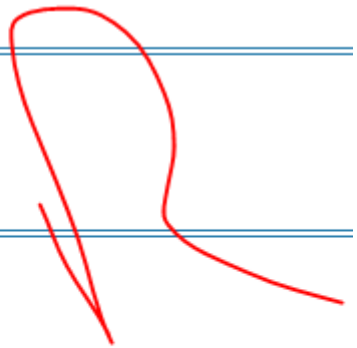
Quiz Start Tin

Question # 20 of 30 (Start time: 10:07:06 AM, 24 June 2021)

Which part of the computer system helps in managing the file and memory management system?

Select the correct option

- (●) Operating System
- ( ) Hardware
- ( ) Device Drivers
- ( ) Application Software



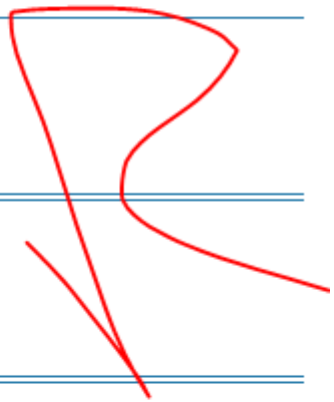
CS604:Grand Quiz Quiz

Question # 21 of 30 (Start time: 10:07:21 AM, 24 June 2021)

The write () system call may not fail for _____reason(s).

Select the correct option

- ○ Invalid argument
- ○ Disk is full
- ● Valid argument
- ○ File size limit for process or for system would exceed



CS604:Grand Quiz

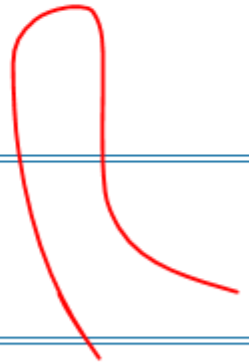
Quiz S

Question # 22 of 30 (Start time: 10:07:34 AM, 24 June 2021)

Which of the following is not True for a time-sharing system?

Select the correct option

- ○ Interactive
- ● CPU sit idle when a process requires I/O operation
- ○ Multi user
- ○ Rigid time requirements



CS604:Grand Quiz

Quiz Start Ti

Question # 23 of 30 (Start time: 10:07:48 AM, 24 June 2021)

_____ processes or threads often need access to shared data and shared resources.

Select the correct option

- Parallel
- Temporary
- Single
- Concurrent

CS604:Grand Quiz

Quiz Start Time: 10:00 AM, 24 June 20

Question # 24 of 30 (Start time: 10:08:06 AM, 24 June 2021)

Total Marks

A Process 'A' that has finished working but its parent process has also finished its execution. In this state the process 'A' will be called as _____ process.

Select the correct option

- Child
- Fork
- Zombie
- Thread

CS604:Grand Quiz

Quiz Start Time: 10:00 AM, 24 June

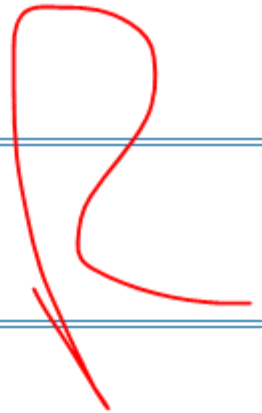
Question # 25 of 30 (Start time: 10:08:24 AM, 24 June 2021)

Total Ma

Four processes P1, P2, P3, P4 enter the ready queue at time 0 with burst times P1=3, P2=10, P3=4. Waiting time of P3 would be _____.

Select the correct option

- 17
- 14
- 13
- 12 (selected)



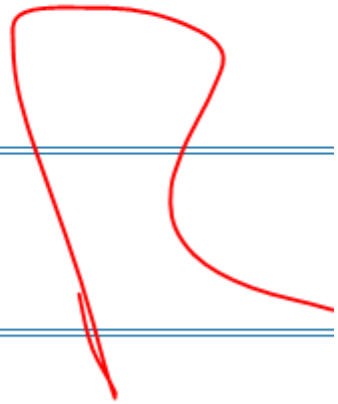
CS604:Grand Quiz Quiz

Question # 26 of 30 (Start time: 10:08:38 AM, 24 June 2021)

In _____addressing, the recipient is not required to name the sender.

Select the correct option

- Symmetric
- Synchronous
- Both (symmetric and asymmetric)
- Asymmetric



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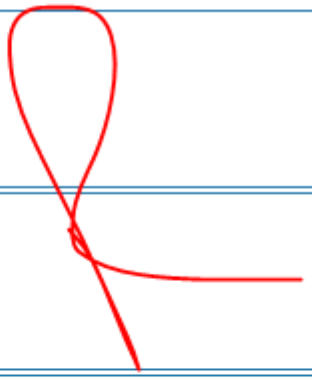
Question # 27 of 30 (Start time: 10:08:54 AM, 24 June 2021)

A program in execution is called a _____.

Select the correct option

- (●) Process
- ( ) Compiler
- ( ) Command
- ( ) Software



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Question # 28 of 30 (Start time: 10:09:07 AM, 24 June 2021)

Concurrent processes must be synchronized to prevent _____.

Select the correct option

- ○ Mutual exclusion
- ○ Critical Section
- ● Race condition
- ○ Waiting

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Quiz Start Time: 10:00 AM, 24 June 202

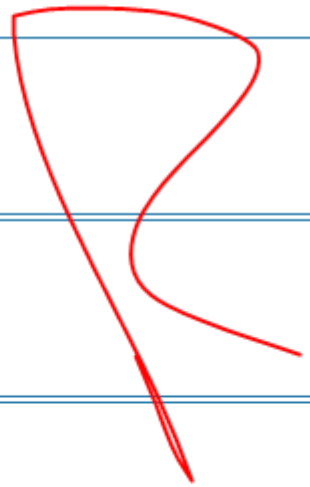
Question # 29 of 30 (Start time: 10:09:26 AM, 24 June 2021)

Total Marks:

When a process P1 switches from the running state to the waiting state because an I/O request is being completed .This scheduling is called---------

Select the correct option

- ○ Termination
- ○ Switching
- ● Non preemptive
- ○ Preemptive



CS604:Grand Quiz

Question # 30 of 30 (Start time: 10:09:40 AM, 24 June 2021)

POSIX is a standard developed by _____

Select the correct option

- ISO
- ANSI
- IEEE
- ACM

CS604:Grand Quiz

Quiz Start Time: 10:00 AM, 24

Question # 1 of 30 (Start time: 10:00:25 AM, 24 June 2021) **Tot**

Which of the following statement is not true regarding the Cooperating processes?

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- ● It may affect or be affected by any other process executing in the system.
- ○ It constructs the system in a modular fashion, dividing the system functions into separate processes or threads.
- ○ It provides an environment to allow concurrent users to access same resources.