



Grand Quiz Spring 2021

Subject Code CS604 lecture 1 to 22

Solved by Riz Mughal

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

Which of the following statement is not true regarding the Cooperating proce

Select the correct option

- | | |
|----------------------------------|---|
| <input type="radio"/> | It provides an environment to run parallel processes to speedup cor |
| <input checked="" type="radio"/> | It may affect or be affected by any other process executing in the sy |
| <input type="radio"/> | It constructs the system in a modular fashion, dividing the system fu |
| <input type="radio"/> | It provides an environment to allow concurrent users to access sam |

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

Using hardware solution to synchronization for complex problems, introduc

Select the correct option

- | | |
|----------------------------------|------------|
| <input type="radio"/> | Trap |
| <input type="radio"/> | TestAndSet |
| <input type="radio"/> | Swap |
| <input checked="" type="radio"/> | Semaphore |

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

In round-robin (RR) scheduling algorithm the CPU scheduler goes around the time interval of up to ____ time quantum.

Select the correct option


- | | |
|----------------------------------|---|
| <input type="radio"/> | 3 |
| <input type="radio"/> | 2 |
| <input type="radio"/> | 4 |
| <input checked="" type="radio"/> | 1 |

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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

- | | |
|----------------------------------|---------------|
| <input checked="" type="radio"/> | Named pipe |
| <input type="radio"/> | Pipe |
| <input type="radio"/> | Unnamed pipe |
| <input type="radio"/> | Message queue |
- 

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

P1, P2, P3, P4, P5 are five processes with ticket numbers P1=1, P2=2, P3
_____ process enters critical section after P1.

Select the correct option

- | | |
|----------------------------------|----|
| <input type="radio"/> | P4 |
| <input checked="" type="radio"/> | P2 |
| <input type="radio"/> | P5 |
| <input type="radio"/> | P3 |

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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

Select the correct option

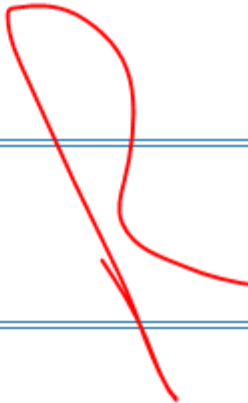
- | | |
|----------------------------------|-------------------------|
| <input type="radio"/> | Environment |
| <input type="radio"/> | File mode creation mask |
| <input checked="" type="radio"/> | File descriptors |
| <input type="radio"/> | Nice value |

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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


- | | |
|----------------------------------|-------------|
| <input type="radio"/> | termination |
| <input type="radio"/> | conclusion |
| <input checked="" type="radio"/> | starvation |
| <input type="radio"/> | aging |
- 

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

The _____ system call suspends the calling process until one of the im

Select the correct option

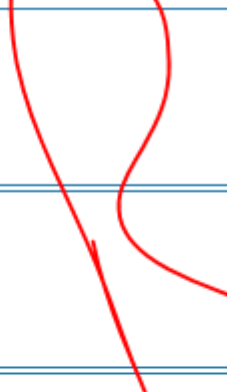
- | | |
|----------------------------------|-----------|
| <input type="radio"/> | Interrupt |
| <input type="radio"/> | Trap |
| <input type="radio"/> | Signal |
| <input checked="" type="radio"/> | Wait |
- 

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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


- | | |
|----------------------------------|------|
| <input checked="" type="radio"/> | nice |
| <input type="radio"/> | grep |
| <input type="radio"/> | cat |
| <input type="radio"/> | 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

- | | |
|----------------------------------|-------------------------------|
| <input checked="" type="radio"/> | system processes |
| <input type="radio"/> | interactive editing processes |
| <input type="radio"/> | batch processes |
| <input type="radio"/> | interactive processes |
- 

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

You can use the bg command to put the current or a suspended process in the background from the following _____.

Select the correct option

- | | |
|----------------------------------|--------------|
| <input type="radio"/> | bg [job#] |
| <input checked="" type="radio"/> | bg [%job_id] |
| <input type="radio"/> | bg [%id] |
| <input type="radio"/> | bg [id#] |

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

Given below two statements can be categorized in some sort of message pa

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

Select the correct option

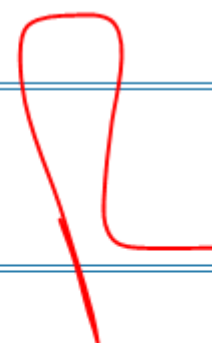
<input checked="" type="radio"/>	Direct communication
<input type="radio"/>	Send by copy commuincation
<input type="radio"/>	Explicit buffering
<input type="radio"/>	Synchronization

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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

- | | |
|----------------------------------|----|
| <input type="radio"/> | -l |
| <input checked="" type="radio"/> | -e |
| <input type="radio"/> | -u |
| <input type="radio"/> | -a |
- 
- A red handwritten mark, resembling a stylized 'e' or a checkmark, is drawn on the right side of the options list, specifically over the '-e' option.

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

The BSD sockets are used for communication between related or unrelated different systems.

Select the correct option


- | | |
|----------------------------------|--------------------------------------|
| <input type="radio"/> | Sibling Process |
| <input type="radio"/> | Related processes |
| <input type="radio"/> | Both related and unrelated processes |
| <input checked="" type="radio"/> | Unrelated processes |

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

In hardware multiprocessor environment two instructions are executed ____

Select the correct option

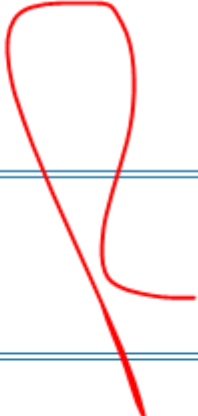
- | | |
|----------------------------------|---------------|
| <input type="radio"/> | By force |
| <input type="radio"/> | Manually |
| <input checked="" type="radio"/> | Atomically |
| <input type="radio"/> | Automatically |
- 

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

mkdir command is used to _____ an empty directory.

Select the correct option

- | | |
|----------------------------------|--------|
| <input type="radio"/> | Move |
| <input type="radio"/> | Create |
| <input checked="" type="radio"/> | Remove |
| <input type="radio"/> | Modify |
- 

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

Ali is an operating system designer. One user requirement regarding OS is following OS structure Ali needs to follow?

Select the correct option

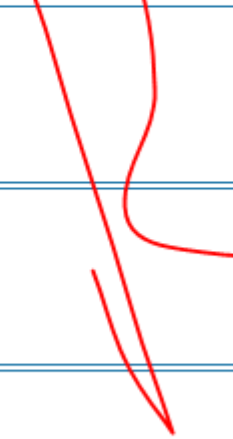
- | | |
|----------------------------------|--------------------|
| <input type="radio"/> | Virtual Machines |
| <input type="radio"/> | Simple OS Approach |
| <input checked="" type="radio"/> | Layered Approach |
| <input type="radio"/> | Micro kernels |

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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

- | | |
|----------------------------------|---|
| <input type="radio"/> | 2 |
| <input type="radio"/> | 3 |
| <input type="radio"/> | 1 |
| <input checked="" type="radio"/> | 0 |
- 

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

UNIX System V Scheduling Algorithm in every second, the priority number ready to run is updated by using the following formula:

Select the correct option

- | | |
|----------------------------------|--|
| <input type="radio"/> | $\text{Priority \#} = (\text{Recent CPU Usage})/2 + \text{Threshold Priority} + \text{nice}$ |
| <input type="radio"/> | $\text{Priority \#} = (\text{Recent CPU Usage})/2 + \text{nice}$ |
| <input checked="" type="radio"/> | $\text{Priority \#} = \text{Threshold Priority} + \text{nice}$ |
| <input type="radio"/> | $\text{Priority \#} = (\text{Recent CPU Usage})/2 + \text{Threshold Priority}$ |

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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

Select the correct option

- | | |
|----------------------------------|----------------------|
| <input checked="" type="radio"/> | Operating System |
| <input type="radio"/> | Hardware |
| <input type="radio"/> | Device Drivers |
| <input type="radio"/> | Application Software |

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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

- | | |
|----------------------------------|--|
| <input type="radio"/> | Invalid argument |
| <input type="radio"/> | Disk is full |
| <input checked="" type="radio"/> | Valid argument |
| <input type="radio"/> | File size limit for process or for system would exceed |

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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


- | | |
|----------------------------------|--|
| <input type="radio"/> | Interactive |
| <input checked="" type="radio"/> | CPU sit idle when a process requires I/O operation |
| <input type="radio"/> | Multi user |
| <input type="radio"/> | Rigid time requirements |

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

_____ processes or threads often need access to shared data an

Select the correct option

- | | |
|----------------------------------|------------|
| <input type="radio"/> | Parallel |
| <input type="radio"/> | Temporary |
| <input type="radio"/> | Single |
| <input checked="" type="radio"/> | Concurrent |
- 

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

A Process 'A' that has finished working but its parent process has also finished as _____ process.

Select the correct option

- | | |
|----------------------------------|--------|
| <input type="radio"/> | Child |
| <input type="radio"/> | Fork |
| <input checked="" type="radio"/> | Zombie |
| <input type="radio"/> | Thread |

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

Four processes P1, P2, P3, P4 enter the ready queue at time 0 with burst ti

Select the correct option

- | | |
|----------------------------------|----|
| <input type="radio"/> | 17 |
| <input type="radio"/> | 14 |
| <input type="radio"/> | 13 |
| <input checked="" type="radio"/> | 12 |

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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

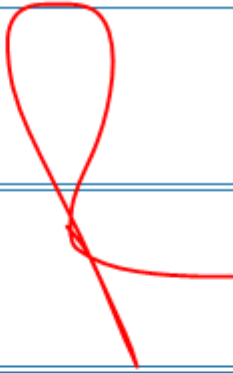
- | | |
|----------------------------------|---------------------------------|
| <input type="radio"/> | Symmetric |
| <input type="radio"/> | Synchronous |
| <input type="radio"/> | Both (symmetric and asymmetric) |
| <input checked="" type="radio"/> | Asymmetric |

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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

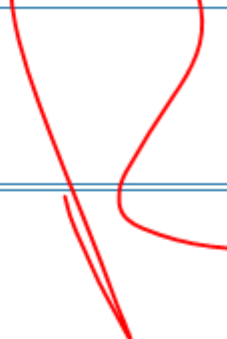
- | | |
|----------------------------------|----------|
| <input checked="" type="radio"/> | Process |
| <input type="radio"/> | Compiler |
| <input type="radio"/> | Command |
| <input type="radio"/> | Software |
- 

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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

- | | |
|----------------------------------|------------------|
| <input type="radio"/> | Mutual exclusion |
| <input type="radio"/> | Critical Section |
| <input checked="" type="radio"/> | Race condition |
| <input type="radio"/> | Waiting |
- 

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

When a process P1 switches from the running state to the waiting state be called-----

Select the correct option

- | | |
|----------------------------------|----------------|
| <input type="radio"/> | Termination |
| <input type="radio"/> | Switching |
| <input checked="" type="radio"/> | Non preemptive |
| <input type="radio"/> | Preemptive |

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

POSIX is a standard developed by _____

Select the correct option

- | | |
|----------------------------------|------|
| <input type="radio"/> | ISO |
| <input type="radio"/> | ANSI |
| <input checked="" type="radio"/> | IEEE |
| <input type="radio"/> | ACM |
- 