



Question 6

Not yet answered

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Which of the following two operations are provided by the IPC facility?

Select one:

- ☐ a. send & delete message
- ☐ b. write & delete message
- ☐ c. delete & receive message
- ☒ d. receive & send message



Question 7

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What is a Process Control Block?

Select one:

- ☒ a. Data Structure
- ☐ b. A secondary storage section
- ☐ c. Process type variable
- ☐ d. A Block in memory



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A major complication of concurrent processes

Select one:

- ☒ a. Shared Memory
- ☐ b. Inter process communication
- ☐ c. Kernel access
- ☐ d. Message passing



If a process fails, most operating system write the error information to a ____

Select one:

- ☒ a. log file
- ☐ b. another running process
- ☐ c. new file
- ☐ d. none of the mentioned



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Which of the following are TRUE for direct communication?

Select one:

- ☒ a. A communication link is associated with exactly two processes
- ☐ b. A communication link can be associated with N number of process ($N = \text{max. number of processes supported by system}$)
- ☐ c. Exactly two link exists between each pair of processes
- ☐ d. Exactly $N/2$ links exist between each pair of processes ($N = \text{max. number of processes supported by system}$)

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The address of the next instruction to be executed by the current process is provided by the _____

Select one:

- ☐ a. Process stack
- ☒ b. Program counter
- ☐ c. Pipe
- ☐ d. CPU registers

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The state of a process is defined by _____

Select one:

- ☒ a. the current activity of the process
- ☐ b. the final activity of the process
- ☐ c. the activity just executed by the process
- ☐ d. the activity to next be executed by the process

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The child process completes execution, but the parent keeps executing, then the child process is known as

Select one:

- ☐ a. Dead
- ☐ b. Body
- ☐ c. Orphan
- ☒ d. Zombie

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Question 16

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True statement about layered approach

Select one:

- ☐ a. Difficult to debug
- ☐ b. Information is not in restricted area
- ☐ c. Changes done in one layer affects the other layers
- ☒ d. Poor performance



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Question 17

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What is the main disadvantage of spinlocks?

Select one:

- ☐ a. they are not sufficient for many process
- ☐ b. they are unreliable sometimes
- ☐ c. they are too complex for programmers
- ☐ d. they are not sufficient for many process



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Question 15

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A semaphore is a shared integer variable _____

Select one:

- ☐ a. that can not be more than zero
- ☐ b. that can not be more than one
- ☒ c. that can not drop below zero
- ☐ d. that can not drop below one



Question 20

Not yet answered

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Select the instruction which is not privileged

Select one:

- ☒ a. Read the clock
- ☐ b. Turn off interrupt
- ☐ c. Clear timer
- ☐ d. Set value of the time



RPC provides a(an) _____ on the client-side, a separate one for each remote procedure

Select one:

- ☒ a. stub
- ☐ b. process identifier
- ☐ c. name
- ☐ d. identifier



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In priority scheduling algorithm, when a process arrives at the ready queue, its priority is compared with the priority of _____

Select one:

- ☐ a. parent process
- ☐ b. init process
- ☒ c. currently running process
- ☐ d. all process

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There are 10 different processes running on a workstation. Idle processes are waiting for an input event in the input queue. Busy processes are scheduled with the Round-Robin time sharing method. Which out of the following quantum times is the best value for small response times, if the processes have a short runtime, e.g. less than 10ms?

Select one:

- ☐ a. $tQ = 45ms$
- ☐ b. $tQ = 50ms$
- ☐ c. $tQ = 40ms$
- ☒ d. $tQ = 15ms$

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In operating system, each process has its own

Select one:

- ☒ a. Address space
- ☐ b. Open files
- ☐ c. Signal handlers
- ☐ d. All of the above

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Question 26

Not answered
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An un-interruptible unit is known as _____

Select one:

- ☐ a. Single
- ☒ b. Atomic
- ☐ c. Static
- ☐ d. None of the mentioned



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To differentiate the many network services a system supports _____ are used.

Select one:

- ☐ a. Sockets
- ☐ b. Service names
- ☐ c. Variables
- ☒ d. Ports

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Question 25

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Message passing system allows processes to _____

Select one:

- ☐ a. name the recipient or sender of the message
- ☒ b. communicate with each other without sharing the same address space
- ☐ c. communicate with one another by resorting to shared data
- ☐ d. share data

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If a process is executing in its critical section, then no other processes can be executing in their critical section.
What is this condition called?

Select one:

- ☒ a. mutual exclusion
- ☐ b. critical exclusion
- ☐ c. synchronous exclusion
- ☐ d. asynchronous exclusion

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Question 30

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The entry of all the PCBs of the current processes is in _____

Select one:

- ☐ a. Process Unit
- ☐ b. Program Counter
- ☒ c. Process Table
- ☐ d. Process Register

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Question 28

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The child process can _____

Select one:

- ☐ a. never have another program loaded into it
- ☐ b. cannot have another program loaded into it
- ☐ c. never be a duplicate of the parent process
- ☒ d. be a duplicate of the parent process