Assignment 2

The deadline for submitting this assignment has passed. As an instructor, you have not received this assignment.

1. A function of an operating system is to handle interrupts. Interrupts are:
   - 1 point
   - a delay in processing due to operating system overload
   - a request for hardware or software requiring attention from the operating system
   - a message received from other computers
   - None of the above

2. If the system is running, it is:
   - 1 point
   - always changing the state of interrupted processes for processing the interrupt
   - always resuming execution of the interrupted process after completing the interrupt
   - always changing the state of the interrupted process to blocked and resuming another process

3. A system call is:
   - 1 point
   - a request to the operating system
   - a request to the network
   - an instruction to the processor
   - a request to the user

4. Map the date of the interrupted process to a table and schedule another process.

5. System calls are:
   - 1 point
   - software interrupts
   - hardware interrupts
   - applications instructions
   - None of the above

6. The power is:
   - 1 point
   - a system call
   - an interrupt
   - an I/O command
   - A hardware interrupt

7. The power is:
   - 1 point
   - A software interrupt
   - A system call
   - A hardware interrupt
   - A I/O command

8. Which of the following is not a ZOMBIE process:
   - 1 point
   - A process that has died and is not yet reaped
   - A process that has been reaped and is waiting for resources
   - A process that has not been created and is not yet running
   - A process that is currently being executed

9. Signal handling: A signal handler is specified as a function, g(),
   where:
   - 1 point
   - The function is an interrupt
   - The function is a system call
   - The function is an I/O command
   - The function is an exception handler

10. Which of the following is an example of a ZOMBIE process:
    - 1 point
    - A process that has been created but not yet started
    - A process that has been started but not yet finished
    - A process that has been finished but not yet reaped
    - A process that has been reaped but not yet reaped

11. Which of the following is an example of an exception handler:
    - 1 point
    - A process that has been created but not yet started
    - A process that has been started but not yet finished
    - A process that has been finished but not yet reaped
    - A process that has been reaped but not yet reaped

12. Which of the following is an example of a system call:
    - 1 point
    - A process that has been created but not yet started
    - A process that has been started but not yet finished
    - A process that has been finished but not yet reaped
    - A process that has been reaped but not yet reaped

Total score: 12 points

Assignment Due Date: 2020-03-23, 23:59 IST.

Examining the system, the instructor has noticed:

- The system is running
- The system has been interrupted
- The system has been reaped
- The system has been finished
- The system has been created
- The system has been started

As a result of the examination, the instructor has decided to:

- Restart the system
- Increase the speed of the processor
- Decrease the memory usage
- Increase the disk space
- Decrease the I/O requests
- Restart the network connection

After the examination, the instructor has noticed:

- The processor usage has decreased
- The memory usage has increased
- The disk space has decreased
- The I/O requests have increased
- The network connection has improved
- The processor speed has decreased

The instructor has decided to:

- Increase the memory usage
- Decrease the disk space
- Increase the I/O requests
- Decrease the network connection
- Increase the processor speed
- Decrease the processor usage

As a result of the instructor's actions, the system has:

- Restarted successfully
- Increased the memory usage
- Decreased the disk space
- Increased the I/O requests
- Improved the network connection
- Decreased the processor usage