Quiz 1

- What are I/O system goals?

a) Only to offer users a simplified logical view.

b) Only to optimize I/O.

c) Only to facilitate peripherals management.

d) All of them.

Quiz 2

- Which one is a block device.

a) Mouse

b) Disk

c) Keyboard

d) Display

Quiz 3

- What are the characteristics of a disk?

a) Block device, Sharable, Read-only

b) Char device, Sharable, Read-only

c) Block device, Random, Read-write

d) Block device, Dedicated, Read-write.

Quiz 4

- A traditional PCI bus is:

a) A bus interconnecting CPU and memory

b) A bus for connecting I/O devices

c) A SAN bus

d) A bus interconnecting CPU with its caches.

Quiz 5

- Memory-mapped I/O can be used for communicating between a device controller and a CPU.

a) True

b) False

Quiz 6

- A port is

a) a connection point

b) a socket

c) a pipe

d) a bus

Quiz 7

- A device controller is:

a) a driver

b) an operating system module

c) a hardware that manages a device

Quiz 8

- What is true about polling?

a) It means concurrently requesting data to multiple devices.

b) It is appropriate if the I/O device is slow.

c) It means busy waiting until the data are ready.

d) It means that an I/O process that directly writes data to the memory to avoid the CPU to miss the data, and then wait for them.

Quiz 9

- What is the advantage of DMA?

a) Less operations to memory.

b) Less interaction CPU-controller.

c) More cache in the device.

d) Makes use of programmed I/O

Quiz 10

- Which is the preferred way of CPU-Controller interaction for a block device?

a) Polling.

b) Interrupts.

c) Direct Memory Access

d) I/O channel