

23 Lecture - CS501

Important Mcqs

1. **What is the main purpose of an I/O subsystem in a computer system?**

- A) To manage the processing of data within the CPU
- B) To provide communication between the computer and external devices
- C) To handle memory allocation and management
- D) To execute system calls from user programs

Solution: B

Which component of the I/O subsystem is responsible for interfacing with external devices?

- A) Device drivers
- B) Buses
- C) Controllers
- D) Buffers

Solution: C

What is the role of a device driver in the I/O subsystem?

- A) To manage the transfer of data between devices and memory
- B) To control the flow of data between devices and the CPU
- C) To interface between the operating system and the device
- D) To store data temporarily during I/O operations

Solution: C

Which of the following is not a common type of I/O device?

- A) Keyboard
- B) Printer
- C) Processor
- D) Mouse

Solution: C

Which type of I/O operation is characterized by data being transferred from a device to memory?

- A) Input operation
- B) Output operation
- C) Interrupt operation
- D) DMA operation

Solution: A

What is the primary purpose of a buffer in the I/O subsystem?

- A) To hold data temporarily during I/O operations
- B) To control the flow of data between devices and memory
- C) To interface between the CPU and the device driver
- D) To allocate and manage system memory

Solution: A

Which type of I/O device is capable of both input and output operations?

- A) Monitor

- B) Printer
- C) Keyboard
- D) Disk Drive

Solution: D

Which of the following is not a commonly used interface standard for I/O devices?

- A) USB
- B) Ethernet
- C) PCI
- D) ISA

Solution: B

Which of the following is not a function of the I/O controller?

- A) To manage device-specific operations
- B) To control the flow of data between devices and memory
- C) To provide buffering and error detection
- D) To interface between the device and the CPU

Solution: B

Which type of I/O operation is characterized by a device notifying the CPU of an event that requires attention?

- A) Input operation
- B) Output operation
- C) Interrupt operation
- D) DMA operation

Solution: C