# 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) PrinterC) KeyboardD) Disk DriveSolution: 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