- 1. Which of the following interfaces is primarily used for connecting internal peripherals within a computer system?
- a) PCI Bus
- b) SCSI Bus
- c) USB
- d) Serial Bus

Answer: a) PCI Bus

Explanation: The PCI (Peripheral Component Interconnect) Bus is commonly used for connecting internal peripherals such as network cards, sound cards, and graphics cards within a computer system.

- 2. What type of data transfer mode is characterized by the simultaneous transmission of multiple bits over separate channels?
- a) Serial
- b) Parallel
- c) Synchronous
- d) Asynchronous

Answer: b) Parallel

Explanation: Parallel data transfer involves transmitting multiple bits simultaneously over separate channels, typically used for high-speed data transfer within computers.

- 3. Which mode of data transfer requires synchronization between the sender and receiver based on a shared clock signal?
- a) Serial
- b) Parallel
- c) Synchronous
- d) Asynchronous

Answer: c) Synchronous

Explanation: In synchronous data transfer, communication between devices is synchronized based on a common clock signal, ensuring accurate timing for data transmission.

- 4. What type of data transfer involves sending data one bit at a time over a single channel?
- a) Serial
- b) Parallel
- c) Synchronous
- d) Asynchronous

Answer: a) Serial

Explanation: Serial data transfer involves sending data sequentially, one bit at a time, over a single channel or wire, commonly used in communication protocols like UART and SPI.

5	. Which technology	allows peripher	rals to transfe	er data	directly	to and	from	memory	without
ir	nvolving the CPU?								

- a) USB
- b) SCSI
- c) DMA
- d) PCI

Answer: c) DMA (Direct Memory Access)

Explanation: DMA allows peripherals to transfer data directly to and from memory without CPU intervention, improving overall system performance by reducing CPU overhead.

- 6. Which bus interface is commonly used for connecting external storage devices such as hard drives and tape drives?
- a) PCI Bus
- b) SCSI Bus
- c) USB
- d) FireWire

Answer: b) SCSI Bus

Explanation: The SCSI (Small Computer System Interface) Bus is commonly used for

connecting external storage devices such as hard drives and tape drives, known for its high performance and versatility.

- 7. Which interface is designed primarily for connecting various external peripherals such as keyboards, mice, and printers to a computer system?
- a) PCI Bus
- b) SCSI Bus
- c) USB
- d) Ethernet

Answer: c) USB (Universal Serial Bus)

Explanation: USB is widely used for connecting external peripherals like keyboards, mice, printers, and storage devices to a computer system due to its ease of use and versatility.

- 8. Which mode of data transfer does not require a constant clock signal for synchronization?
- a) Serial
- b) Parallel
- c) Synchronous
- d) Asynchronous

Answer: d) Asynchronous

Explanation: In asynchronous data transfer, devices synchronize data transmission using start and stop bits rather than a continuous clock signal, allowing for flexibility in timing.

- 9. Which component is responsible for managing data transfer between external peripherals and the CPU in a computer system?
- a) I/O Interface
- b) I/O Processor
- c) DMA Controller
- d) SCSI Controller

Answer: b) I/O Processor

Explanation: The I/O Processor is responsible for managing data transfer between external peripherals and the CPU, handling tasks such as interrupt handling and data buffering.

- 10. Which type of data transfer mode is commonly used for long-distance communication due to its robustness against signal degradation?
- a) Serial
- b) Parallel
- c) Synchronous

d) Asynchronou

Answer: a) Serial

Explanation: Serial data transfer is often preferred for long-distance communication because

it is less susceptible to signal degradation compared to parallel communication.

- 11. Which bus interface provides high-speed communication between components inside a computer system, typically used for graphics cards and high-performance peripherals?
- a) PCI Bus
- b) SCSI Bus
- c) USB
- d) PCle

Answer: d) PCIe (Peripheral Component Interconnect Express)

Explanation: PCIe is designed for high-speed communication between components inside a computer system, commonly used for graphics cards, solid-state drives, and other high-performance peripherals.

12. What technology allows multiple devices to share the same communication channel by assigning unique addresses to each device?

- a) Multiplexing
- b) USB
- c) SCSI
- d) I/O Processor

Answer: a) Multiplexing

Explanation: Multiplexing allows multiple devices to share the same communication channel by assigning unique time slots or frequency bands to each device, maximizing the use of available bandwidth.

- 13. Which data transfer mode is suitable for high-speed communication within a computer system due to its parallel transmission of data?
- a) Serial
- b) Parallel
- c) Synchronous
- d) Asynchronous

Answer: b) Parallel

Explanation: Parallel data transfer, which involves transmitting multiple bits simultaneously over separate channels, is suitable for high-speed communication within a computer system.

- 14. Which technology is commonly used for connecting external peripherals to laptops and desktop computers due to its plug-and-play capability?
- a) SCSI
- b) USB
- c) FireWire
- d) Ethernet

Answer: b) USB (Universal Serial Bus)

Explanation: USB is widely used for connecting external peripherals to laptops and desktop computers due to its plug-and-play capability, allowing devices to be easily connected and disconnected without restarting the system.

- 15. What type of data transfer mode is commonly used for transmitting data over long distances, such as telecommunications networks?
- a) Serial
- b) Parallel
- c) Synchronous
- d) Asynchronous

Answer: a) Serial

Explanation: Serial data transfer is commonly used for transmitting data over long distances, such as telecommunications networks, due to its reliability and efficiency in long-distance communication.

- 16. Which mode of data transfer relies on a continuous clock signal for synchronizing data transmission between devices?
- a) Serial
- b) Parallel
- c) Synchronous
- d) Asynchronous

Answer: c) Synchronous

Explanation: Synchronous data transfer relies on a continuous clock signal for synchronizing data transmission between devices, ensuring accurate timing and alignment of data.

- 17. What technology allows data to be transferred between devices using light signals rather than electrical signals?
- a) USB
- b) Fiber Optic
- c) Ethernet

d) SCSI

Answer: b) Fiber Optic

Explanation: Fiber optic technology allows data to be transferred between devices using light signals transmitted through optical fibers, offering high bandwidth and immunity to electromagnetic interference.

- 18. Which bus interface is commonly used for connecting networking devices such as network interface cards (NICs) to a computer system?
- a) PCI Bus
- b) SCSI Bus
- c) USB
- d) Ethernet

Answer: d) Ethernet

Explanation: Ethernet is commonly used for connecting networking devices such as network interface cards (NICs) to a computer system, enabling communication over local area networks (LANs) and wide area networks (WANs).

19. Which mode of data transfer allows devices to communicate without requiring strict timing synchronization?

- a) Serial
- b) Parallel
- c) Synchronous
- d) Asynchronous

Answer: d) Asynchronous

Explanation: Asynchronous data transfer allows devices to communicate without strict timing synchronization, using start and stop bits to indicate the beginning and end of data transmission.

20. What component manages the flow of data between the CPU, memory, and I/O devices in a computer system?

- a) I/O Interface
- b) I/O Processor
- c) DMA Controller
- d) Bus Arbitrator

Answer: b) I/O Processor

Explanation: The I/O Processor manages the flow of data between the CPU, memory, and I/O devices in a computer system, handling tasks such as data transfer, interrupt handling, and I/O operations coordination.

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