

Study Material

Question 1

It is the top layer of the reference model. This also handles general network access, the movement of data from sender to receiver(called flow control), and error recovery for application, where applicable.

Answer:

Application Layer

Explanation:

The application layer provides a protocol that allows the software to send and receive information and present meaningful data to users.

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Question 2

What is the main role of the Network Layer in the OSI model, and which protocols operate at this layer?

Answer:

Network Layer

Explanation:

The Network Layer is responsible for determining the best path for data to travel between different networks. It handles routing, logical addressing (like IP addresses), and forwarding of data packets. Its primary protocols include IP (Internet Protocol)

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Question 3

What functions does the Transport Layer provide, and how do TCP and UDP differ in this layer?

Answer:

Transport Layer

Explanation:

The Transport Layer ensures reliable communication between devices by managing data flow, error correction, and segmentation. It uses two main protocols: TCP (Transmission Control Protocol) for reliable, connection-oriented communication, and UDP (User Datagram Protocol) for unreliable, connectionless communication.