

FAQ

Module-1	
Question 1.	What distinguishes a Local Area Network (LAN) from other kinds of networks?
Answer	A Local region Network (LAN) refers to a network infrastructure that is limited in scope and restricted to a relatively small geographic region, such as an office space or a building. It presents a contrast to more expansive networks such as Metropolitan Area Networks (MAN) or Wide Area Networks (WAN) that include urban areas or even whole nations.
Question 2.	Why is IP addressing important in a network?
Answer	The process of IP addressing has significant importance as it serves the purpose of assigning unique identifiers to devices inside a network. This functionality facilitates the efficient routing of data and enables effective communication among the various devices. The absence of unique IP addresses would result in a lack of direction for data transmission.

Question 3.	What are the distinguishing characteristics of the transport layer in comparison to the other levels within the OSI model?
Answer	The transport layer has the responsibility of facilitating end-to-end communication and managing the control of data flow. The layer in question differentiates itself from other layers by prioritising data integrity, sequencing, and error correction, rather than device-to-device communications or data formatting.
Question 4.	Is it possible for a network to operate without the use of socket programming?
Answer	Indeed, it is possible for a network to operate without the use of socket programming. Socket programming plays a crucial role in enabling the development of bespoke protocols and communication techniques, hence augmenting the capabilities and adaptability of network-centric systems.
Question 5.	Is the Local Area Network (LAN) only restricted to wired connections?

Answer	No, Local Area Network (LAN) is not only confined to wired connections. The evolution of LAN technology has resulted in the emergence of Wireless LANs (WLAN), which use radio waves as a means of communication, hence obviating the need for physical wiring.
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