

Data Link Layer Interview Questions And Answers Guide.



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Data Link Layer Job Interview Preparation Guide.

Question # 1

What is Spanning-Tree Protocol (STP)?

Answer:-

Spanning-Tree Protocol (STP) as defined in the IEEE 802.1D is a link management protocol that provides path redundancy while preventing undesirable loops in the network. For an Ethernet network to function properly, only one active path can exist between two stations. Loops occur in networks for a variety of reasons. The most common reason you find loops in networks is the result of a deliberate attempt to provide redundancy - in case one link or switch fails, another link or switch can take over.

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Question # 2

Explain what are the responsibilities of Data Link Layer?

Answer:-

The Data Link Layer transforms the physical layer, a raw transmission facility, to a reliable link and is responsible for node-node delivery.

- a. Framing
- b. Physical Addressing
- c. Flow Control
- d. Error Control
- e. Access Control

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Question # 3

Tell me why data link layer is divided into two layers?

Answer:-

Data link layer is divided into MAC layer and LLC layer. This LLC LAYER is for form for NOVELL AND IPX protocol. For ip protocol we use SRC ADDRESS and DEST ADDR (for communication), but when we use IPX/NOVELL protocol the frame includes 1 more byte named "don't know" (through which communication happens @ 2nd layer)... (in short to communicate with IP and IPX/NOVELL we form LLC layer.)

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Question # 4

What is Virtual Private Network?

Answer:-

Virtual Private network is a network that uses the public telecommunication infrastructure. This means that it uses public wires to connect the nodes. E.g. Internet. VPN supports remote access to computers and allows data to be transmitted over this public network. Even though the data is transmitted over a public network, encryption and decrypting data to ensure security.

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Question # 5

Do you know what is a MAC Address?

Answer:-

MAC (Media Access Control) addresses are globally unique addresses that are written into hardware at the time of manufacture. The MAC address is a unique value associated with a network adapter. MAC addresses are also known as hardware addresses or physical addresses. They uniquely identify an adapter on a LAN. MAC addresses are 12-digit hexadecimal numbers (48 bits in length).

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Question # 6

Explain VPN?

Answer:-

A VPN is a service that offers secure, reliable connectivity over a shared public network infrastructure such as the Internet. VPNs maintain the same security and management policies as a private network. They are the most cost effective method of establishing a virtual point-to-point connection between remote users and an enterprise customer's network.

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Global Guideline Team
<https://GlobalGuideline.com>
Info@globalguideline.com