# **Unique Networking Questions:**

#### **General Concepts & Definitions**

1. What is a Computer Network? Explain the goals of a Computer Network.
2. Define a protocol.
3. What is a network topology? Explain different types of topologies.
4. What is addressing? Explain different types of addresses.
5. What is an internetwork?
6. What is a firewall?
7. What is steganography?
8. What is a proxy server?

#### **Network Models & Protocols**

1. Explain the function of each layer in the ISO-OSI reference model.
2. Explain the TCP/IP protocol in detail.
3. Differentiate between connection-oriented and connectionless services.

#### **Transmission & Media**

1. What is wireless transmission? Explain guided and unguided media in detail.
2. What is transmission media?
3. What is unguided media? Explain types of unguided media.
4. Explain different modes of communication with sketches.
5. What is ground wave propagation? Explain with a diagram.

#### **Networking Devices**

1. What is a hub? Explain types of hubs.
2. What is a switch? How does it differ from a hub?
3. What is a bridge? Explain types of bridges.
4. What is a gateway? Explain various levels of gateways.

#### **Networking Standards & Technologies**

1. Explain IEEE standard 802.11 (WLAN) in detail.
2. What is Fast Ethernet? Explain categories of Fast Ethernet.
3. What is Standard Ethernet?
4. What is Bluetooth? Explain its architecture.
5. What is VLAN? What are the features of VLAN?
6. What is a backbone network? Explain types of backbone networks.

#### **Security & Attacks**

1. What is an attack? Explain various types of attacks.
2. What is copyright? Explain its applications.

#### **IP & Addressing**

1. What is meant by classful addressing?
2. Explain IP addressing.

#### **Other Important Topics**

1. State the advantages and disadvantages of LAN with uses.
2. Explain fiber optic cables.
3. What is Virtual LAN?
4. Write a short note on a switch.