

Practical 10.

* Configure TCP/IP protocols like IP address, subnet mask, gateway, DNS server.

Q.1 What is static IP.

→ An Internet protocol (IP) address is a unique number assigned to each computer on a network. A computer on the internet can have a static IP address which means it stays the same over time or a dynamic IP address which means the address can change over time.

3 Write steps to configure static IP address.

→ Start → Control panel → network & sharing centre
→ Network and Sharing Centre.

→ Click change adapter settings

Right-click on Wifi or local area connection
click properties

Select Internet protocol version 4 (TCP/IPv4)

click properties.

→ Select use following IP address -

Enter the IP address, subnet mask, default gateway and DNS server.

click ok.

Q What is default gateway?

→ A default gateway is the node in a computer network using the protocol suite that serves as the forwarding host to other networks when no other route specification matches the destination IP address of a packet.

Q What is subnet mask?

→ A subnet mask is a 32-bit number created by setting host bits to all 0s and setting network bits to all 1s. In this way the subnet mask separates the IP address into the network and host addresses.

Q What is DNS server?

→ The Domain name system is hierarchical and decentralized naming system for computers, services, or other resources connected to the Internet or a private network. It associates various information with domain names assigned to each of the participating entities.