# Case Study Assignment: Exploring Field Test Mode on Smartphones

## IMEI (International mobile system identification)

Description: A completely unique 15-digit variety assigned to cellular devices.

Importance: Used to become aware of devices on cell networks. enables in monitoring lost or stolen telephones and may be used to dam unauthorized gadgets.

## MAC address (Media admission to manage address)

Description: A completely unique identifier assigned to community interfaces for communications on a nearby network.

Importance: Essential for network management and security, as it allows in distinguishing devices at the identical community and controlling get entry to.

## IP address (Internet Protocol cope with)

Description: A unique deal with assigned to each tool connected to a network, permitting communication over the internet.

Significance: Enables the identity and place of gadgets, essential for routing statistics packets to an appropriate location.

## DNS (Domain name)

Description: A device that interprets human-readable domain names (like www.instance.com) into IP addresses.

Importance: Makes it simpler for users to get entry to web sites without remembering complex numerical IP addresses.

## Subnet masks

Description: A 32-bit wide variety that divides an IP deal with into the network and host quantities.

Importance: Facilitates decide the community's length and the variety of available addresses, which is important for organizing networks.

## Gateway

Description: A device that connects special networks and acts as an get entry to point.

Significance: Important for routing visitors between networks, especially for guiding data from a local community to the net.

## DHCP (Dynamic Host Configuration Protocol)

Description: A community management protocol that routinely assigns IP addresses to devices.

Importance: Simplifies network administration through dynamically allocating IP addresses, lowering conflicts and configuration errors.

## NAT (Community address Translation)

Description: A method that allows more than one gadget on a neighborhood community to percentage a single public IP cope with.

Significance: Complements security and conserves IP addresses, making it possible for numerous gadgets to get admission to the net concurrently.

Every one of these parameters performs a vital position in the functioning and management of networks, making sure green communication, safety, and agency.

## Screenshots from the Field Test Mode to display the required information:

