

# SHIVANI

## Data communication Assignment

Ans1-

Types of network

- Local area network (lan)
- Wireless local area network (wlan)
- Metropolitan area network (man)
- Wide area network (wan)

Ans2-

Unshielded Twisted Pair or UTP are twisted pair cables and are used to transmit both data and voice as their frequency range is suitable for transmission. Shielded Twisted Pair or STP are also a twisted pair cables but are required to be grounded, wants more maintenance, have high data transmission capacity and are more costly than UTP.

Ans3-

Baseband refers to a single-channel digital system and that single channel is used to communicate with devices on a network. Broadband, on the other hand, is wide bandwidth data transmission which generates an analog carrier frequency, which carries multiple digital signals or multiple channels.

Ans4-

A switch transmits data from one device to another in form of frames while a router transmits data from one network to another in form of packets. A hub transmits data from one device to another in form of binary bits.

Ans5-

Yes, that's because MAC addresses are hard-wired into the NIC circuitry, not the PC. This also means that a PC can have a different MAC address when another one replaced the NIC card.

Ans6-

A large percentage of a network is made up of hardware. Problems in these areas can range from malfunctioning hard drives, broken NICs, and even hardware startups.

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Ans7-

The best solution is to install anti-virus on all the computers in the network.

Ans8-

When a device is assigned a static IP address, the address does not change. Most devices use dynamic IP addresses, which are assigned by the network when they connect and change over time. The main difference between IPV4 and IPV6 is the address size. IPV4 is a 32 bit address whereas IPV6 is 128 bit.

Ans9-

TCP and IP are the first and most important communication protocols of the Internet protocol suite. TCP belongs to the transport layer and IP to the Internet layer of the Internet protocol suite.

Ans10-

A web browser is an application used to access and view websites. Common web browsers include Microsoft Edge, Internet Explorer, Google Chrome, Mozilla Firefox, and Apple Safari.

Ans11-

A search engine is a web-based tool that enables users to locate information on the World Wide Web. Popular examples of search engines are Google, Yahoo!, and MSN Search engine.

Ans12-

Internet is a physical network formed of various networks globally and www is one of the services offered by the internet that has a collection of information. At present using internet we can find information of the world in our device or computer.

Ans13-

ISP is organization who provides services to access Internet. The examples of some internet service providers are BSNL, Reliance Jio, Airtel, Vodafone idea etc.

Ans14-

The main difference between MAC and IP address is that MAC Address is used to ensure the physical address of the computer. It uniquely identifies the devices on a network. While IP addresses are used to uniquely identify the connection of the network with that device takes part in a network.

Ans15-

In the lower-left corner of the browser window, tap and hold the back arrow. The page that opens contains your browser's history. You can also press CTRL + H.