

Data Communication Worksheet

Draw lines to match the names of transmission media with the images



Coaxial cable

Unshielded Twisted pair cable

Shielded Twisted pair cable

Fibre optic cable

When transmission of the data flows along a set channel we call that channel guided transmission. Whenever it doesn't have a set route to flow then we call it unguided.

Which of the following would be an example of guided transmission?

Radio waves

Coaxial cable

Microwaves

Infra-red

Which would be an example of unguided transmission?

Radio waves

Coaxial cable

Ethernet cable

USB cable

Which type of wired media is best for transmitting data over long distances without losing quality?

Twisted pair cable

Coaxial cable

Fibre optic cable

USB cable

This is because the signals a wireless device transmits are more powerful than the ones it receives. This causes the devices to not be able to transmit and receive at the same time. Based on this statement, which is true about wireless transmission

Operates on full duplex

Operates on half duplex

Operates on simplex

Does not operate

which is also true about wireless transmission?

Faster than wired

Is not affected by objects and walls

Slower than wired

Use the words below to fill in the blanks. Questions highlighted in green are for extra reading and enrichment (bonus question) and will not count toward your score.

IP

nodes

modem

switch

Router

Network Interface Card

wireless

workstation

Fill in the following blanks with the correct answer :

1.....convert computer's digital signal into an analogue signal for transmission over an existing telephone line and also revers process.

2 Is every device connected to a network

3..... it's similar to hub but more secure and efficient .

4 Each device or computer on a network has a address that uniquely identifies it.

5..... are device that connect LAN to another LAN that uses the same protocol.

6..... enable data packet to be routed between the different networks.

7..... protect the computers on a network.

8. Is every device connected to a network is called a
.....

9..... is needed to allow a device to connect to a network.

10. Computer system use or network cable to connect to the network.