

## **COMPUTER NETWORKS**

### **ASSIGNMENT NO-01**

**COURSE: T.E.**

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#### **Question:**

1. What are different ways of communication to communicate with your brother who is staying in the USA? Justify.

- Communication Networks can be of following 5 types:

- ① Local Area Network (LAN)
- ② Metropolitan Area Network (MAN)
- ③ Wide Area Network (WAN)
- ④ Wireless
- ⑤ Inter Network (Internet)

- For my brother who is staying in the USA I can use various modes for communication including Wireless communication, Internet, etc.

- Wireless Communication

→ Digital Wireless Communication is not a new idea.

→ Earlier, Morse code was used to implement wireless network.

→ Modern digital wireless systems have better performance but the basic idea is the same.

- Wireless WANS

→ The radio network used for cellular telephones is helpful to communicate with my brother outside the country.

→ It is low bandwidth wireless WAN.

This system has already gone through three generations.

① The first generation was analog and for voice only.

② The second generation was digital and for voice only.

③ The third generation is digital and is for both voice and data.

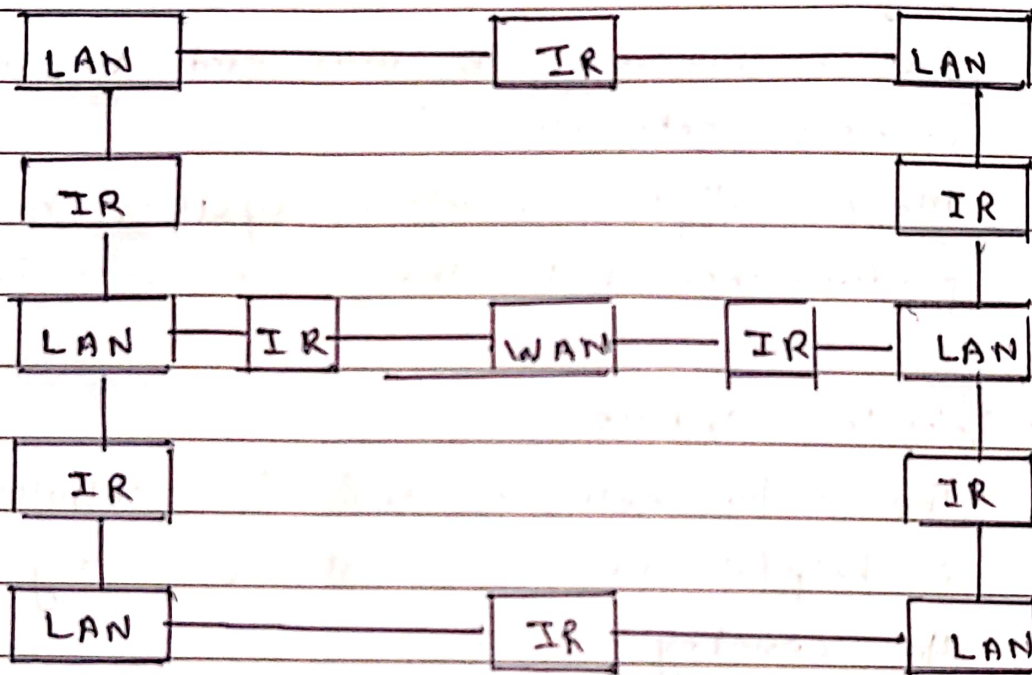
With this I can communicate with my brother without noise or interruptions.

## - Inter Network

This is most efficient and by far the best way to communicate with my brother staying in the USA.

Inter Network or Internet is a combination of two or more networks.

Inter Network can be formed by joining two or more individual networks by means of various devices such as routers, gateways and bridges.



## Internet

Computer systems and peripherals are connected to form a network. They provide numerous advantages.

- ① Exchange of information by means of emails and FTP.
- ② Interaction with other users using dynamic web pages.
- ③ Video conferencing.
- ④ Instant messaging.