

Computer Network

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Assignment No. 1

Que-1 Differentiate between LAN, MAN and WAN.
Ans -

	LAN	MAN	WAN
1.	Area covered is small.	Area covered is large.	Area covered is very large.
2.	Communication medium used in LAN is coaxial cable.	PSTN or satellite links used.	Coaxial cables, PSTN, wireless.
3.	Data rate is high.	Data rate is moderate.	Data rate is low.
4.	Principle used in LAN is of broad-casting.	Principle used in MAN is switching.	Principle used in WAN is both broadcasting and switching.
5.	Propagation delay is short.	Propagation delay is moderate.	Propagation delay is large.

Que-2 Define three types of switching?
Ans -

- 1) Circuit Switching
- 2) Packet Switching
- 3) Message Switching

1) Circuit Switching -

There is a direct physical connection between two devices is established.

⇒ Three phases are involved in this method :

- i) Circuit establishment
- ii) Data transfer
- iii) Circuit Disconnect

2) Message Switching -

In this, the message is stored and relayed from secondary storage. No direct connection is established.

⇒ There are two types of msg

3) Packet Switching -

In this type the message is transmitted in the form of bits of variable length block called packets.

In packet switching the packets are stored and forwarded from RAM.

Typically packet size is 1000 bytes.

⇒ Two approaches are used in this type of switching :

- Datagram Approach
- Virtual Circuit Approach.