To provide all these mandatory functionalities
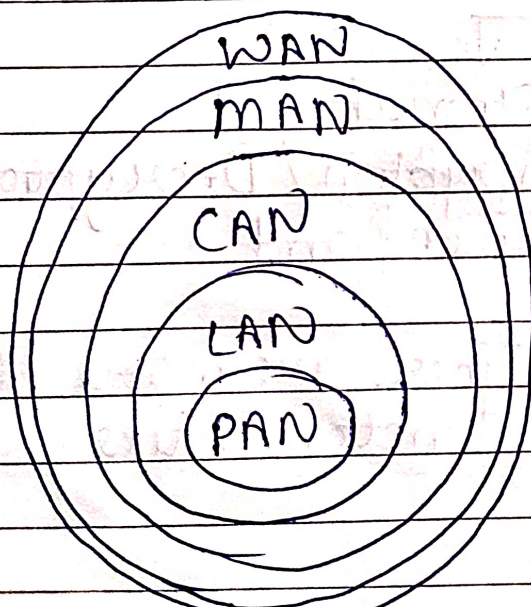we need OSI model

OSI model (Open System Interconnect)

OSI model layers
OSI model is a layered architecture.
it has following 7 layers

Application layer → presentation layer
Session layer
Transport layer
Network Layer
Datalink layer
Physical layer

Types of Computer Network

1. PAN → personal Area Network

2. LAN → Local Area Network

3. CAN → Campus Area Network

4. MAN → Metropoliton Area Network

5. WAN → Wide Area Network

	PAN	LAN	CAN	MAN	WAN
Technology	Bluetooth	Ethernet/wifi	Ethernet	ATM	Dial Up
Range	1-100 m	uto 2 km	1-5 km	5-50 km	above 50 km
Transmission speed	very high	very high	high	average	low
Area	within room	within office/building	within university	within city	within countries
Ownership	Private	Private	Private	Private/public	Private/public
Maintenance	very easy	easy	moderate	Difficult	most difficult
Error Rate/cost	low	low	moderate	high	very hi

TCP/IP Protocol suite.

· Application presentation Session layer	Application	Application
Transport	Transport	Transport
Network	internet	Network
Data link	Network acum layer	Data link
Physical		physical

7 Layer   4 Layer   5 Layer