UNIT-1: Topics:
Network hardware & Software Network hardware & Software OSI Reference model TCP/IP Reference model OSPANIET The bound
OSI Reference model
• TCP/IP Reference would
• ARTANET , UNIONS
· Gruided Transmission media:
twisted pairs PART-2
Coaxial cable
fibre optics
Wirelen transmission.

Network Hardware The basic Hardware Component in a Network are; media to transfer data from one -> Network cables: Network cables are the frammission device to another + howers 1 Rowler is a connecting device which transfers Data packets between différent Computer Networks. > Repealers A repealer receives signal and regenerales it before re-transmitting so
that it can travel longer
> Hubs: A Hub is a multi-port repealer
> Roil of a multi-port repealer > Bridge: A Bridge connects two seperate Ethernet network

> Gateways: A gateway connects entirely different networks that work upon completely different protocols.

Network Software comprises a broad range of software implementation, operation and monitoring of Computer Network	are used for derign,
implementation, operation and monitoring of Computer Network OSI; OSI stands for Open Standard Interconnection	OSI Réfaince Model
The OSI model does not specify to perform networking tooks	L7 Application layer Support
It defines point of interconnection for the exchange of information between system. It has I interconnected layers Network layers	
The 7 layer are 1 Application layer Presentation layer Session layer Transport layer Transport layer	L2 Data link layer Support Layers L1 Physical layer

2. Data link layer: 19t transforms Protocol APDU If the physical layer to a reliable Protocol PPPV P link making it an error free link Protocal SPDU to upper layer. TPDU 3. Network layer: It is responsible Network Network for the delivery of packets from the Source to the destination K JOLL K JOLL & 4. Transport layer ; It is responsible Physical Physical 1. Physical layer ? The is the Lowest layer in OSI Reference Model host 5- Session layer: It establishes sessions · Its function is to transmit individual bits from one node to Thetween users and offers services like another over a physical medium. dialog could & synchronization.