framework that standardizes they functions of 13 Sunday telecommunication ox computing. layers. This model helps vendors and dévelopers rereate. Layor 1 · The Physical layer is the first and OSI model It is responsible to for This layer deals with the physical immertion

hub and repeaters at a like with society ables, Data link Layer (Layer)
The Data link Layer provides node-to-node data transfer - a direct link blu two physically connected nodes of ensures.

That data frames once transmitted winth propon synchronization, Deines souch as switches and bridges operately at this addresses to some addresses to the restant of addresses to the restant addresses to 14.00 Network layer clayers) set to swarding functioning

15.00 the nowting parkets trough different nowtens to

reach the destination network

16.00 It is now responsible more dequalificatives sing valid paths determined

ensuring that datas reaches the scorrect destination and paths determined

17.00 paceross whealthree networks principles Routers operate at this layer wing Phatarnetice

Protocol) addresses to to identify adevices and adetermin

the most efficient path for data transmission. Trous porte layer (layer 4) - It is need to ment in services for applications of the server provides mes ponsible for the melia enter a present of data segmentation

reassembly of messages, flow control and onor checking.

Protocols the trip and upp function cat this lager. Tep

Toffers reliable, consection - oriented transmission with every

recovery, while UDP provides a factor; connection less from munication

without garanteed delivery. mentains and terminates connections allowing devices to hold ususing that data transfer can resume seamlessly after · Protocols and APIs (Application Programming Interfaces) abouting beenen Protocols, APL -> So Presentation Layer (layer 6) layer and network format. It handles date representation, ensuring that information sout bir application layer of one system is readable by the application layer of another of this include later encryptions and leisephion data compersion and conventing data formats. Emphion protocols and data compression techniques repenates at this layer to severe and optimize data transmission.

(Layer 7) twork : Encryption protocolo in data compression-Protocols, 16.00 Session TIP, UDPort

When resending val tile over network i several rétéparations auross lifferent Tayors of the network model. The process begins at the Application Layer which initiates the file transfer request. following these thea Presentation of Lager reneryptos the file to reasone its recently at during of transmission in The sessions degen les establishes a communication session with the increming devices At the was port Layer title files is broken down Interior segments to cusine consorter tree traismissioner The Network a layer stakes wort torodetermine atter best route 1000 for ontransfering. The data across the network of Next the Data link Layer encapsulates the data into trames. preparing it for node-to-node delivery finally the -tuphysical relayers and addes the actual trousmession of bits