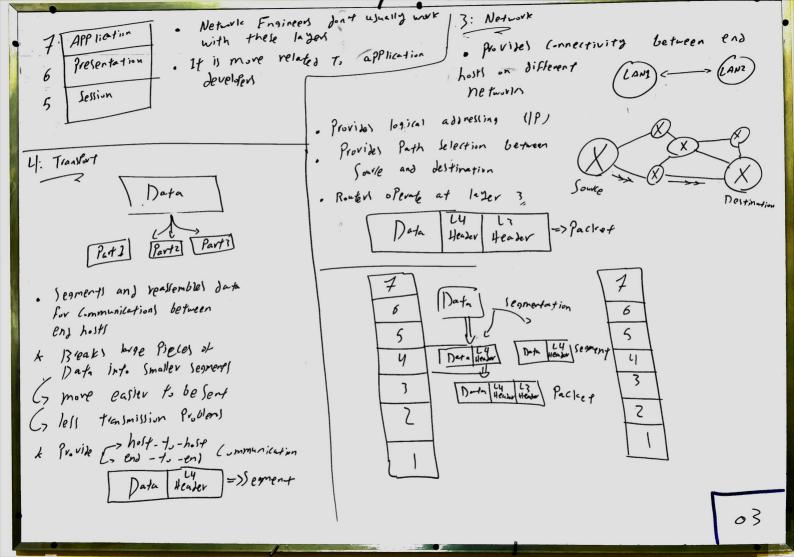
Networking model Categorize and provide a structure For networking Protocols & Handards Networking model Handard No Standagizatio=> No Communication Handard Protold OST Model Handard Put. 101 * Olen systems Inter Connection => olen Handards All APPlication Acrongas Comot in use 60 just 10094 Presentation Pointless t created 62 150 in Individual Companies Session Students Seem * functions are divided into 7 layers To Teach Transport Not Need Network Data Datu link 1)0 Prolessing Physical Please 01

7: Application layer Presentation . The closest to the end user Jest ion Frapsulation . Interacts with software application De-enca Psulation ex. HTTP or HTTPS Network Kinteraction https:// Sites.google. Com Niew/ Yassersakhabbo Data link L · Hentylying Communication Partners Physical · Synchunizing Communications Electrical signals on wivel 6: Presentation APPlication (Data) 5 : Session application format · Data is translated Session to a different formet to be send over the network . Controll sessions between how application = translations network
fromty Establish manage · e.g: encroption (sort Jak) Le (ryption (receive) data) C. 9 , It also translates between different application functs 02



1 Physical 2 Data Link of the medium and data Physical Chareteristics · Provide node - to - note Connectivity . De line > to transer data - H- E-Q-(X) used transor Cabb Physical カッカーハッシャ Secilication(maximum Voltage · Nefines how Jota is formatted for Connected Ylansmission levell transmission over a Physical medium distantes ex. Coppe UTP cables 0,1 Digital bits . Detects & (Possiely) corrects Physical 1- yer errors Valio uses adjressing Layer 3 adjressing Clectrical (wireless) (wired) . Switches oferale at 12 trailer Data Header Header Header Cabbi , Pins, layouts and so .. user APPraction > end when Framp Presentation 6 No more encalidation hallens Session Je. excPLH Protocul Transport Hender Data 4 sagment Header Header Packet Data Network Data Unitl Head Hed L4 Heador L2 trailer Data Data link (PDUS) Physical 04 electrical Signals

OSI Model TCP/17 Suite TCP/IP Suite Application APPlication * Conceptual model (Proficult + standards) Presentation TCP//P => two foundational Lection Transport Transport Prof. 6.15 Internet Network A Developed by DARPA Data link Link Defente Advanced Research Projects Asency Physical A Similar to OSI but forer layers & Network engineers don't much work with 5-7 layer * This is the model in use in modern So we Py them into I Lade in TEPIR lung # If you say layer 4 => Transpor CosT) ne two nes & You might hear APAI Cation (TCP/IP)) OSI Inthency how network engineers different names for the layer think on I talk about networks ex. Link 11=> Network Interface Application C Process - Process Affliction Wortwork Access hot to - hot Transor Transfort Ch-ole the best Path T Internet Internet Internet Internet \ \ Lin'c Link Link Link \ -> Fiber Etherner