Internet is? Internet is Packatized form of network. It is stored and forward network. Internet is shared network and Public network. Reference Models 1 051 2 Internet 3 TCP/IP 13 What is OSI Model? Commonly referred to as the OSI reference Model. DSI model is a francwork for defining Standards for linking he bergenous computer systems located anywhere. The OSI is theosphical bluepoint that helps is understand how data gets from one was to another. Contains 7 different layers that interact with each model. 7-Application => Network Process to Application 6- Possentation => Data Representation 5. Session => Interhost - Communication &- Transport => End-to-End Communical Connections 3- Nchwork => Address and Best Path. 2- Dala link => Acros to Media MAC, LLC 1. Physical => Binary Foundmission 1

a Teplip model
Another Model is TEPNIP model.
We use the four layer structure that
incorporates the Presentation and services layers
with the application layer.
@ Application => Interact, with wer Processes
3) Transport => RP quarters data is Revioued
1 Internel => Monger the Connection Accord Nedwork.
Debysical layer => Interposales Network and Physical layer.
Communication? Restocals important to Westweeks
Communication?
TCP => HTTPI, SMIP POP FTP Doct to law
TCP => HTTPI, SMIP POP FTP Deplication lagur
UDP (War Datagram Prochou)
It is an alternative to TCP. LOP does
not quarate delivery, Preservation of Segmence or
Protection against duplication.
wed with (SNMP) Sinple network Managnant
Protocol. TCPIIP Protocols
ACIM IL 18040 COIS
IP -> TEP, UDP, 1cmp, 1emp, RSVP
TO > HITP, SMIP, FIP, TELNET, BEIP Application
UDP -> SHMP
SMTP -> MIME

Q Kay Features of a Protocol? A Protocol is a get of oules or Conventions that allow Peer lagers to communicate They Key Features of Protocol is synter Formal of clasa block. Semantic: Control Information for Coordination and error handling. Timing - speed of Matching and sequency. @ Functions of Protocol Architecture? * Breaks into Subtask modules which are implemented Separtely. \$, modules are arranged in a vertical stack reach lager in the stack Performs a. Subset of functions. La Relies on enext lower layer. KPM (Transmission Control Protocol) Tel is the most transport layer Pritocol for most applications TCP Provides a reliable Connection for transfer of data between applications. A TCP segment is the Basic Protocol unit PCP tracks segments between entities for duration of each connection. Application layres top of TCP -> FTP, SMTP, SSH

Standards		
A standard Provider a model	for development.	
that makes it Possible for Product to work		
regardless of the individual manfucture.		
Types of Standard		
* De Jure -> By law and regu	lation standard.	
* De Facto- By Fact or by	Convention	
Standerization Process		
There are three Steps of sta	underigation	
1- Specification.		
2- Identification of choices	. 5-4	
3- Acceptance	12 - (A1) · (S) · (S)	
-+ + 1 / 1	are are all a	
Titles	2	
Time delay between one	Packet to	
another Packet Basically Called.	Differ.	
	3 4 1 E	
Mos (mean openion scope)		
Wex opinion	MOS Score	
Maxiumum obtainable	4,4	
very salished	4.3 +05	
Solistied	4 to 4.3	
Some user satisfied	3.6 to 4	
Many were disadistied	3.1 to 3.6	
Not OE commonated	1.0 to 3.1	
	anad with CamCaannar	

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and 1Pv6 Difference B/w 1P.4 1Pv 6 19,4 128 bik 1 32 bit 340 tribion unique a 1Poy by billion address granted It is class less 1Py has 4 Classes Range O-FFFF 4 Range 0-255 It consists & octects · M. Ghas 8 bits layers Division 9 Application 6 Presentation or Application layer ; Session 4 Transport Internet layer Data link > Physical Hardware layer Physical

Network Criteria A Network must be able to meet Certain number of Criteria. There are Three Most important Criteria. 1) Performance: - Performance of network depends on nomber of wers, type of transmission Medium of Network @ Keliability: - Reliability is measured by manuf treguency of failure. 3 Security: - Protecting data from unauthorized data acress and virus. Internetworking Internetworking is the Process or technique of Connecting different networks by using Intermidiary drvices such as vower or gatuay devices. There are Three types of internetworking. D Data link layer O Media Accord control (MAC) 3 Notwork langer adelans Webwork layer: The network layer is the Part of Internet Communications Process where these Connections Occure by Kending Prekels of Dator between different Networks. Date Link layer in responsibilities of Natur Link layer is Framing, Physical addrening, flow Control, Error control and access control.

Defre ARQ (Automatic Repeat Querry) based on ARQ. Which means vatransminion of data in 3 case. Damaged frame, lost frame, bost acknowledge. To ensure a sequence of infirmation Packets is delivered in order and without error or duplications despite transmission error or losses Define HOLC (High Bevel Data Link Control) It is bit-Oriented data link Protocol designed By support Internation organization of Standargation. So. It is group of Protocols or rules for transmitting data between Networks. Types of Stations in HDLC There are 3 Station types in HDLC a) Primary b) Secondary c) Combined KP: Hierarichal Organization Internet service Provider (MP) is a Company which Provides internet connection to end wer. There are Basically 3 levels of 15P. Tier 1 KP, Tier 3, Tier 3 Tion 2 Scanned with CamScanner

Data Center liers

Data Center tiens are standardized ranking

System that indicates the reliability of data center

inferastructure. This classification ranks facilities from

1 to 4. with 1 being the woost and 4 is the

best Performing level.