X.25

- -> X.25 is an ITU-T standard protocol soite.
- -> Used in Packet-Switched Data Communication.
- > Originally introduced by CCITT [Consultative Committee for International Telegraph & Telephone]. in 1976.
- -> Used for ATM networks and credit cord verification.
- JET also permits that the exchange between terminals with different communication speed.
- -> X.25 has 3 protocol layers
 - (a) Physical Layer interface blue computer terminal and the link to the packet switched node. X. 21 implementer is commonly used to the linking.
 - (b) Data Link louger It comprises the link access procedures for exchanging data over the link.
 - (c) Packet Cayer—This Layer defines the format of data packets and the procedures for control and transmission of the data packets. It provides external virtual circuit service.

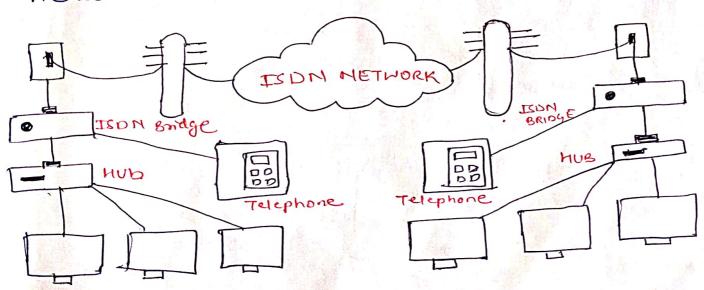
ISDN -

ISDN - Stands for Integrated Services Digital Network.

It is a set of communication standards that uses digital transmission to make phone college video calls, transmit data and other network services. ISDN is a development of the plain old telephone service (POTS).

ISDN uses digital switching connections to transmit digital signals. It can deliver two simultaneous connections, in any merging of data, voice, video, and fax, over an individual line. ISDN provides high-speed, high-bandwidth channels to every subscriber on the PSTH (Public switched telephone Nelwork).

IS DN is a circuit—switched telephone n/w system. These digital lines could be copper lines. ISDN also provides access to packet—switched networks.



Softswitch Anchitecture -

Softswitch architecture is the physical coftware and digital programming that allows softguitches to function. softswitches, are software-based switching platforms that enable data switching for phone calls, data exchange and more. Softwitches can be used to establish, maintain, you're and terminate sexions in voice oran IP (VoIP) networks. They can also prioride advanced frahmes such as call forwarding, call waiting, caller ID, voicemail and interpactive vice suponee VoIP- is a technology (IVR) Systems.

Softswitch anchitecture includes:

- 1) softswitches /
- 2) VOIP Gateways
- 3) Application servers

that allows viers to make phone calls over me Poternet Pristead of topaditional phone lines. converts wicesignal into digital signal

- -> General Purpose computer sounding specialized software to make it a smoot phone switch.
- -> Lower costs
- And To Ashronic for the -3 Greater functionality

Ly paketizing of digitized voice data

Ly Allowing Loice over IP

-> Must complex part of telephone network switch is soprowie contrilling call process

43 Call Houring

Is call processing logic

13 Typically sunning on proprietary processor in traditional switch.

Media Gareway - is a device used in the core network of a telecom network operator to provide tyansformation and interworking between medical streams that use different network standards, communication protocols, codecs and physical connections.

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Land Land Wind

[coder-decoder]
tor compression
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a separate call procenting from hardwere function of switch a Physical switching done by media gateway. - call processing done by medica gaterbay controller [ss7 is an international telecommunication perotocol standard Traditional Circuit Switch that defines how the niw element in a PSTN exchange information and Switch control signals] > SS7 Network Call Procening Request to generate prigress tones, eg., Supervisory events Hingback, engaged. eg. off-hook, on-Instauctions to establish hook switch feebsic connections Chavil Cincuit Switched Switchi 19 Jabric PHUNKS connected by one or more switches. + Trunks are used to connect telephone switches. SOFFSWITCH > SS7 Network is a probow that coordinates Media Gareway the actions of media Controller gateways 7 Cincuitor Media Cincuit or Gateway packet Packet switched switched frunks access is advice that converts media streams between different beleeommunication technologies.