1) congrare packet switched Network, circuit Switched Network and Memage Switching Techinques.

Parameter	Packet Switching	Circuit Switching	Menage switching
Message and packets	The big memage is divided into a small no of packers	There is one big entire date stream called a menage.	There is one by entire data stream alled a memoge.
Pouting	Packets follow the independent path to hold the destination.	one single dedicated path exists between the sousce and destination	Memages follow the independent sout to seach destination.
Propagation delay	Yes	No	Yes
Transmission Capacity	Max	low	Moun Memage arrives in sequence.
Sequence ordes	packets do not appear in sequence at destination	Mensegl assives in sequeno.	
queuing	Que is formed	No queue is formes	queue is formes
Addrewing and sequencing	packets are addressed and sequency is done at all the packets follow the independent road.	Messages need not be addressed on these is one dedicated put	Menager are addressed as independent lower crose established
sequencing	pre idependent vorde.	circuit multiplening	characters memage multipleming
Multiplexing scheme	Dacket Mulip		
	media accen networks Call setup delay as well as	call setup delay	Parties Fransmission delay, Propagation delay, queung dala
Delay	packet toanmission delay		processing delay.

2) Compare Boilage and Gateway.

	-
Boidge	Gateway
Bridge works in datelink layer.	@ It works in all leagers
2) Connects two different LANS	2) It converts the protocol
1) In the form of packet	empage of a with
E) formeat of packet is not changed.	5) Fromat of packet is changed.
Constalled on	DEMF (electromotive force) is y she primary cause of the potential difference.

Compare OSI and TCP/IP layers

Parameters	OSI Model	TCP/IP Model	
Jasameres		Fransmission Control protocol	
Full forms	Open Systems Faterconnection	(6r) Internet protocol	
Layers	It has 7 layers	It has 4 layers	
Usage	Low in usage	mostly used	
Approach	Verbially approached	Horizontally approached	
Delivery	relivery of Package is guaranteed in OSI model	guaranteed in TCP IP world	
Replacement	Replacement of tools and charges can be easily to done	Carry or it is in OSI mudel	
Reliability	Len reliable than TCP IP.	prove reliable than OSJ.	

4) Different types of HDLC frames.

High-level Data link Control (HDL) generally provides flexibility to Simply support all options that are possible in various data transfer modes and configurations. To provide flexibility, HDLC has three different types of frames. Frames are identified by the control field. The frames Carry different menagls.



