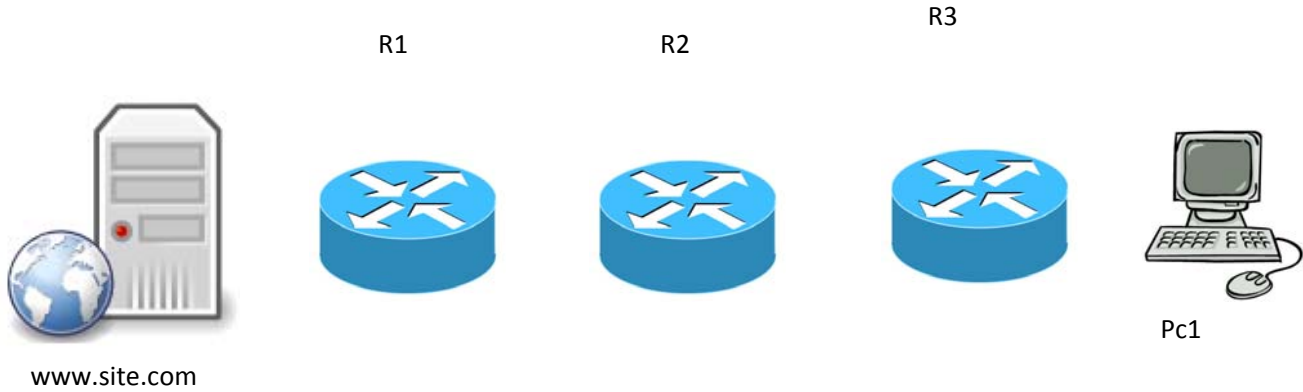


Network I Revision 1

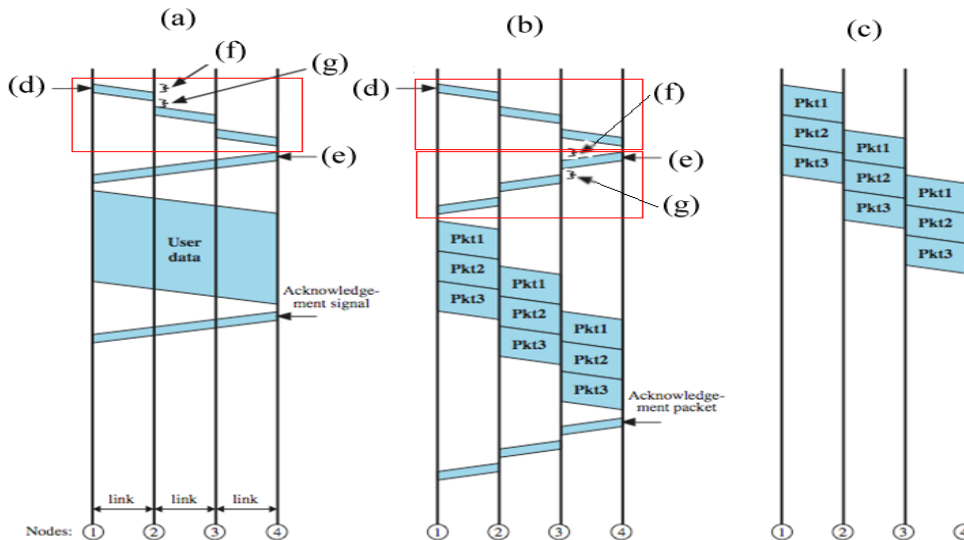
1. Trace a packet trip from PC1 to www.site.com, and vice versa



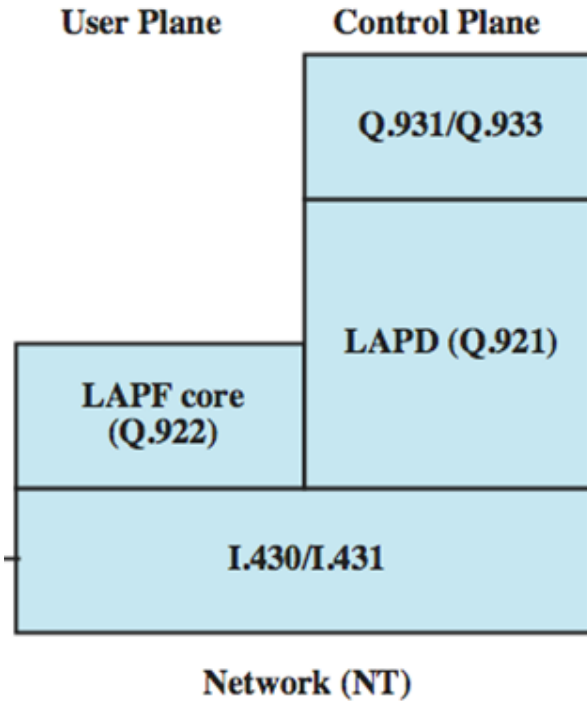
Packet Example:

	Data link layer header	IP header	TCP header	Data	Tale
Source	41.212.55.78	1.1.2.2	80		
Destination	129.213.21.5	1.1.2.1	1588		

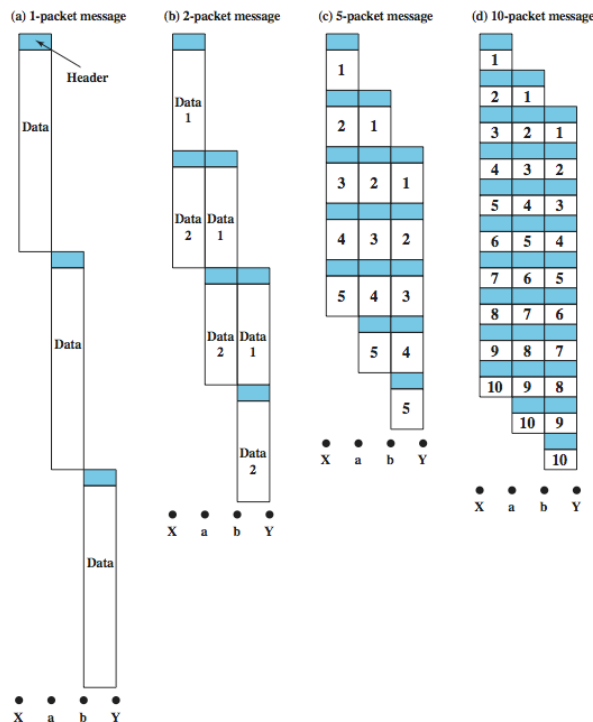
2. The following figure shows three different approaches of switching, Write down the name of each symbol.



3. The following figure shows frame relay protocol architecture for network terminals. User plane contains only two layers while control plane contains 3 layers. discuss

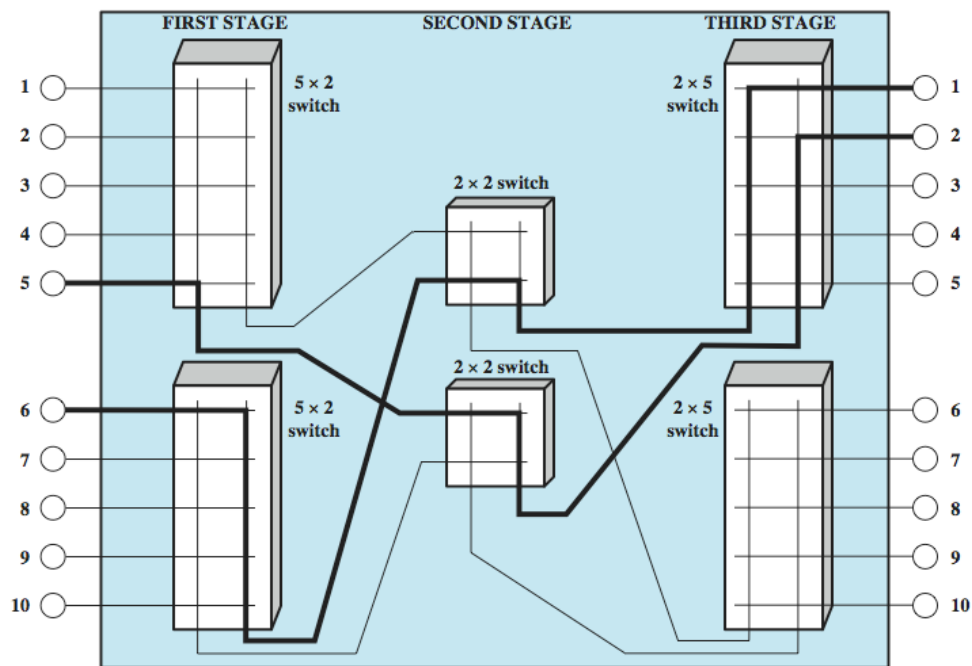


4. The following figure describes the packet sizing effects on overall transmission speed.



The message consists of 60 octets; node adds 5 octets of control information at the beginning of each packet in the header, and data rate 10 octet/us, Ignoring switching time. Calculate the transmission time to send the whole message if message sent as one , 2, 5, 10 packets.

5. In the following multiple-stage switches, state all the remaining possible connections can be established beside the current connections.



6. state the advantages and dis advantages of **Space Division Switch**

7. compare between data gram and virtual circuit approaches in packet switching technique.

8. compare between virtual circuit approach in packet switching technique and circuit switching technique.

9. compare between X.25 and frame relay.

10. discuss the need for network plane and user plane in Frame relay Protocol Architecture.