

- Q.1 (a) What is computer Network? Explain types of Network in details. [10]  
(b) List out different Network Cable and explain any two in details. [10]
- OR**
- Q.1 (a) What do you mean by Multiplexing? Explain any two types in details. [10]  
(b) Write detail short note on Digital data, Analog data & VHF. [10]
- Q.2 (a) Explain Satellite communication and FDDI. [10]  
(b) Explain in details about Unrestricted Simplex protocol. [10]
- OR**
- Q.2 (a) Explain Error detecting codes with suitable example. [10]  
(b) Write short note on error control and flow control in data link layer. [10]
- Q.3 (a) Explain multicast Algorithm in details. [10]  
(b) What is routing? Explain the concept of flooding & ISDN in details. [10]
- OR**
- Q.3 (a) What is Switching? Explain various types of switching in details. [10]  
(b) Write detail short note on PABX . [10]
- Q.4 (a) What is Network Topology? List out different topologies and Explain any two in details.. [10]  
(b) Write detail short note on TCP/IP-Reference model. [10]
- OR**
- Q.4 (a) Write short note on IP Protocol & IP Addressing. [10]  
(b) Explain the concept of Tunneling technique with suitable example. [10]
- Q.5 (a) Explain Elementary data link protocol in details. [10]  
(b) Write short note on Bridges & Routers. [10]
- OR**
- Q.5 (a) Write short note on Virtual private Network and Firewall. [10]  
(b) Describe the use of Modem, Repeater, Gateways, Hub & Protocol. [10]
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