

**Unit – I****Chapter 1 : Network Layer & Protocols 1-1 to 1-47**

Syllabus : IP Addressing : Address Space, Notations, Classfull addressing, Classless addressing, Network Address Translation (NAT). Internet Protocol (IP) : Datagram Format, Fragmentation, Options. ICMPv4 : Messages, Debugging Tools, ICMP Checksum. Mobile IP : Addressing, Agents, Three Phases, Inefficiency in Mobile IP. Virtual Private Network : VPN technology.

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Unit – III

Chapter 3 : Unicast & Multicast Routing Protocols

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Unit - IV

Chapter 4 : Transport Layer Protocols 4-1 to 4-48

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