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Example Networks: The Internet, Connection-Oriented Networks (X.25, Frame Relay & ATM), Ethernet.Network Layer: Network Layer Design Issues: Store-and-Forward Packet Switching, Services Provided to the Transport Layer, Implementation of Connectionless Service, Implementation of Connection-Oriented Service, Comparison of Virtual-Circuit & Datagram Subnets.Routing Algorithms: The Optimality Principle, Shortest Path, Routing, Flooding, Distance Vector Routing, Link State Routing, Hierarchical Routing, Broadcast Routing, Multicast Routing, Routing for Mobile Hosts.UNIT-IINetwork Layer: Congestion Control Algorithms: General Principles of Congestion Control, Congestion Prevention Policies, Congestion Control in Virtual-Circuit Subnets, Congestion Control in Datagram Subnets, Load Shedding, Jitter Control.Quality of Service: Requirements, Techniques for Achieving Good Quality of Service, Integrated Services, Differentiated Services.Internetworking: Networks Differences, Connecting Networks, Concatenated Virtual Circuits, Connection less Internetworking, Tunneling, Internetwork Routing, Fragmentation.Network Layer in the Internet: The IP Protocol, IP Addresses, Internet Control Protocols, OSPF-The Interior Gateway Routing Protocol, BGP-The Exterior Gateway Routing Protocol, Internet Multicasting, Mobile IP,IPv6.UNIT-IIITransport Layer: The Transport Service: Services Provided to the Upper Layers, Transport Service Primitives, Berkeley Sockets. Elements of Transport Protocols: Addressing, Connection Establishment, Connection Release, Flow Control and Buffering, Multiplexing, Crash Recovery, Simple transport Protocol.User Datagram Protocol (UDP): Introduction to UDP, Remote Procedure Call, The Real-Time Transport Protocol.Internet Transport Protocols (TCP): Introduction to TCP, The TCP Service Model, The TCP Protocol, The TCP Segment Header, TCP Connection Establishment, TCP Connection Release, Modeling TCP Connection Management, TCP Transmission Policy, TCP Congestion Control, TCP Timer Management, Wireless TCP & UDP Transactional TCP.UNIT-IVApplication Layer: The Domain Name System(DNS): The DNS Name Space, Resource Records, Name Servers, Electronic Mail: Architecture & Services, The User-Agent, Message Formats, Message Transfer, Final Delivery.World Wide Web: Architectural Overview, Static Web Documents, Dynamic Web Documents, HTTP - HyperText Transfer Protocol, Performance Enhancements, Multimedia: Introduction to Digital Audio, Audio Compression, Streaming Audio, Internet Radio, Voice over IP, Introduction to Video, Video Compression, Video on Demand, The MBone - The Multicast Backbone.Computer Networks PDFComputer Networks NotesWhat is Computer Networks?Definition: Computer network is a digital telecommunications network for sharing resources between nodes, which are computing devices that use a common telecommunications technology.Full Computer Network TutorialComputer Networks Interview QuestionsSome of the computer networks interview questions are mentioned below. 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