

**IV B.Tech I Semester Regular Examinations, November 2005**  
**NETWORK INSTALLATION & MANAGEMENT**  
**(Information Technology)**

**Time: 3 hours**

**Max Marks: 80**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. (a) Explain campus switches and ATM switches.  
(b) Explain CIP and advantages of CIP with frame formats. [6+10]
2. (a) Explain "Router working with configuration files".  
(b) Explain subnet examples. [10+6]
3. Write a short notes on RIP protocol description. [16]
4. (a) Explain BGP fundamentals.  
(b) Write a transition policies in route filtering and give advantages of multi homed connection. [8+8]
5. (a) Explain the differences between Service advertisement protocol and Novel link services protocol.  
(b) Explain IPX packet format and its fields. [8+8]
6. Explain access lists in IPX command with full syntax. [16]
7. (a) Explain "throughput vs. bandwidth in X.25 scalability".  
(b) Explain how to implement multi-access network by using OSPF on X.25. [8+8]
8. (a) Explain in detail services of ISDN.  
(b) Explain functions and reference points of ISDN with a neat diagram. [8+8]

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1. Compare bridges and routers in network infrastructure. [16]
2. (a) Explain virtual terminal connections.  
(b) What is CISCO discovery protocol (CDP) with neat diagram explain how CDP works over a datalink layer connecting lower physical media and upper network layer protocol. [6+10]
3. Write a short notes on  
(a) Static routing  
(b) RIP-2  
(c) OSPF [5+5+6]
4. Write a note on  
(a) Filters and Queues  
(b) Advanced traffic filters [8+8]
5. (a) Explain IPX addressing.  
(b) Explain ARC Net and PPP protocols. [8+8]
6. (a) With neat diagram explain the main router connected to several Ethernet addresses.  
(b) Compare HDLC and LAPB encapsulation protocols. [8+8]
7. With suitable commands explain multilink point to point configuration by using Vermont and Maine routers. [16]
8. (a) Explain the illustration of the frame format of spanning tree.  
(b) Explain bridging in different media. [8+8]

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1. (a) What is ARP and proxy ARP.  
(b) Compare ATM and other LAN technologies showing a table with different characteristics. [8+8]
2. Explain the following with examples  
(a) Virtual terminal connections  
(b) Basic connectivity testing [8+8]
3. What are the differences between IGRP and EIGRP. [16]
4. (a) Explain implementation of traffic filters.  
(b) Explain complex internet works. [8+8]
5. (a) Explain Get Nearest Server ( GNS) overview.  
(b) Explain IPX Ethernet encapsulation types. [12+4]
6. (a) Explain HDLC encapsulation protocols.  
(b) Explain WAN scalability connection services. [8+8]
7. With suitable commands explain multilink point to point configuration by using Vermont and Maine routers. [16]
8. (a) Explain in detail services of ISDN.  
(b) Explain functions and reference points of ISDN with a neat diagram. [8+8]

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1. Compare different LAN technologies. [16]
2. (a) Explain loop back addresses.  
(b) What is subnet and explain subnet mask. [8+8]
3. (a) Explain border gateway protocol ( BGP -4).  
(b) With neat diagram explain BGP speaker and AS relationship. [6+10]
4. (a) Explain BGP fundamentals.  
(b) Write a transition policies in route filtering and give advantages of multi homed connection. [8+8]
5. Write the differences between NetWare transport and upper layers. [16]
6. (a) Explain Filters in IPX WAN.  
(b) Explain overview of PPP. [8+8]
7. (a) Explain overview of Point to Point protocol.  
(b) Explain PPP link control protocol configuration with frame formats.  
(c) Explain operation of multilink Point to Point protocol. [6+6+4]
8. (a) Explain in detail services of ISDN.  
(b) Explain functions and reference points of ISDN with a neat diagram. [8+8]

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