

(MDC – 07) COMPUTER COMMUNICATION

Theory paper: 100 Marks

Sessional: 50 Marks

Study or function TCP/IP ref. Model in computer networks. Switching techniques & Switches, Broad band ISDN & ATM. Polling techniques, multiplexing & concentration, LAN components, transmission media used in physical layer, X.25 networks. Queuing theory, Max. Flow Algorithm, Introduction to LAN, WAN, LAN protocols, ALOHA, IEEE standards for LAN High speed fiber optic networks, FDDI, SONET satellite networks, packets radio networks. Data link layer protocols, error detection & correction codes in DLL. Protocol performance evaluation, protocol specification & verification, Routing and congestion in network layer, routing & congestion control algorithms Network layer in Internet and ATM networks. Network synchronization, traffic analysis, Network management in routing control Connection management in transport layer. Protocols or transport layer Internet transport protocols like TCP, UDP etc. ATM protocols Data security & cryptography techniques, access management in application layer, World Wide Web, e-mail, concept or virtual terminals. Study or different computer networks

Suggested Text Books and References:

1. Computer Network. Tanenbaum, P.H..I publication
2. Data and Computer Communication: William Stalling
- 3 Computer and internet, by Comer, McGraw Hill.