

**Anna University Exams**  
**Important Questions – 4th Semester BE/BTECH**  
**Computer Networks**

**Unit-I**

1. Explain in detail the error detection and error corrections (Study Problem Also)
2. Discuss in detail about the layers of OSI model.
3. Write the Sliding Window Algorithm and explain it in detail.
4. Give the TCP/IP network architecture model and discuss the design issues of the same in detail

**Unit II**

1. Explain (a) CSMA/CA (b) CSMA/CD (c) wireless LANs
2. Discuss (a) MAC layer functions of IEEE 802.11 (b) Describe the FDDI frame format and explain
3. Explain in details about the access method and frame format used in Ethernet and token ring.
4. Explain bluetooth architecture in detail

**Unit III**

1. Discuss briefly about RIP and OSPF.
2. Explain the (a) distance vector routing algorithm (b) link state routing algorithm in detail
3. Write various aspects of IPV6. What are the new features and improvements?
4. Explain the following (a) ICMP (b) Inter Domain Routing (c) ARP

**Unit IV**

1. Explain a congestion control algorithm. Explain various methods used in TCP for congestion control.
2. With neat architecture explain TCP and TCP header format..
3. Explain the three way handshake protocol to establish the transport level Connection
6. Explain TCP congestion avoidance mechanism in detail.

**Unit V**

1. Explain (a) E-Mail (b) WWW
2. Discuss (a) DNS (b) SNMP
3. Explain HTTP in detail
4. Explain Web services in detail