

**JAYA ENGINEERING COLLEGE**

**THIRUNINRAVUR**

**Department of Computer Science and Engineering**

**Important question**

**Year & Semester : II / IV**

**Subject Code : CS6551**

**Subject Name : COMPUTER NETWORKS**

**Degree & Branch : B.E – C.S.E.**

**UNIT-1**

1. Explain about Network Architecture with neat sketch on it.
2. Explain about OSI Architecture with neat sketch on it.
3. Explain about Internet Architecture with neat sketch on it.
4. Explain about Network software.
5. Explain about Performance of computer network.
6. Explain about Framing and its types.
7. Explain about Error Detection.
8. Explain about Reliable transmission or Flow Control.
9. Explain about requirement of building a network.
10. Problems on Bandwidth and Latency

**UNIT-2**

1. Explain about Ethernet (802.3)
2. Explain about Wi-Fi (802.11).
3. Explain about Bluetooth with its architecture.
4. Explain about Switching and Bridging.
5. Explain about Internet Protocol.
6. Explain about ARP.
7. Explain about CIDR.

8. Explain about DHCP.
9. Explain about ICMP.

### **UNIT-3**

1. Explain about Switching and Forwarding.
2. Explain about RIP
3. Explain about OSPF.
4. Explain about BGP.
5. Explain about Routing areas.
6. Explain about IPv6.
7. Explain about Multicast.
8. Explain about DVMRP.
9. Explain about PIM.
10. Explain about Multicast address.

### **UNIT-4**

1. Explain about the operation of TCP with neat sketch on it.
2. Explain about the concept of sliding window protocol.
3. Explain about UDP with neat sketch on it.
4. (i). Difference between UDP and TCP. (ii). Discuss flow control with an example.
5. Explain about the three way handshake protocol for connection establishment in TCP.
6. Explain about the TCP congestion control.
7. Explain about the RED algorithm.
8. Explain about the concept of congestion avoidance in TCP?
9. Explain about the RSVP protocol with neat sketch.
10. Explain about the differentiated services

## UNIT-5

1. Explain about the Traditional applications.
2. Explain about the WSDL in web services.
3. Explain about the SOAP.
4. Explain about the SMTP.
5. Explain about the DNS.
6. Explain about the SNMP.
7. Explain about the MIME.
8. Explain about the POP3.
9. Explain about the IMAP.
10. Explain about the HTTP.

Prepared by

Mr.A.Manimaran