

SHRI SANT GADGE BABA COLLEGE OF ENGINEERING & TECHNOLOGY
BHUSAWAL

Department of Electronics & communication Engineering.

Computer Communication Network: SEM-I
Paper Solution –May 2009

UNIT -I

1. a) Explain the concept of Internet with respective to other networks?
Solution : Refer Notes Page No : 17 to 19

- b) Explain system architecture of ISDN with different services?
Solution : Refer Notes Page No : 40 – 44

- c) Enlist the different Wireless transmission techniques and explain any one in detail ?
Solution : Refer Notes Page No : 33 to 39

UNIT II

2. a) Explain what are the main design issues of data link layer ?
Solution : Refer Notes Page No : 69 – 80

- b) Enlist different multiple access protocols. Explain any one.
Solution : Refer Notes Page No :115 -126

- c) Explain IEEE 802.3 standard ?
Solution : Refer Notes Page No : 123-128

UNIT III

3. a) What is the concept of virtual circuit in network layer ? What do you mean by datagram subnets in it ?
Solution : Refer Notes Page No : 148 -150

- b) Enlist different routing algorithm .Explain any one?
Solution : Refer Notes Page No :150 -162

- c) What are the different congestion control policies with respective to network layer?
Solution : Refer Notes Page No : 165 -166

UNIT IV

4. a) Draw and Explain IPv4 datagram?

Solution : Refer Notes Page No : 186 – 191

- b) How MAC and IP addresses are mapped ? Explain protocols related with it ?

Solution : Refer Notes Page No : 181 -185 (ARP & RARP)

- c) Explain the concept of ATM LAN ?

Solution : Refer Notes Page No : 215 -219

UNIT V

5. a) Explain different services and features of transport layer ?

Solution : Refer Notes Page No : 221 -225

- b) How flow control and error control performs in transport layer ?

Solution : Refer Notes Page No : 233 – 236

- c) Explain concept of WWW and e-mail applications in detail ?

Solution : Refer Notes Page No : 260 -266