

2005-PUNJAB UNIVERSITY
B. TECH DEGREE EXAMINATION
COMPUTER NETWORK
(ELECTRONICS AND COMMUNICATION ENGINEERING)

TIME-3HOUR
MARKS-100

PART A [10*2=20 MARKS]

- 1(a) Discuss the digital and analog types of communication.
- (b) Differentiate between Synchronous and Asynchronous types of Communications.
- (c) Discuss the mechanism of microwave transmission.
- (d) List the features of Coaxial Cables.
- (e) Discuss the concept of message Switching.
- (f) What are the merits of Ring Topology ?
- (g) What are the different types of services provided by data link Layer to network layer ?
- (h) Discuss the significance of IEEE standards.
- (i) What is meant by TDM technique ?
- (j) Discuss the role of IP protocol.

PART B [10*8=80 MARKS]

2. Discuss the characteristics of different types of communication channels available for transmission.
3. Discuss the working of CSMA/CD protocol in detail.
4. Describe the procedure of framing and error control by Data Link Layer.
5. Explain the working of Network and transport layer of OSI reference model.
6. Discuss the term internet working. What are the different components to create an internet ?
7. Compare the working of different layers of OSI model with TCP/IP reference model.
8. Describe the message formats, message headers and e-mail gateways associated with e-mail transmission.
9. Compare the different network topologies in detail.