Roll No.

Total No. of Pages : 2

BT6/M11

8618

Data Communication Networks

Paper-ECE-310E

Time : Three Hours]

[Maximum Marks : 100

Note :—Attempt FIVE questions in all, selecting at least ONE question from each unit. All questions carry equal marks.

UNIT—I

- 1. What are the distinguishing features of a Local Area Network ? How is it different from a Wide Area Network with respect to the transmission technology used and the relevant software design issues ?
- 2. Distinguish between the following :----
 - (a) Connection oriented and connectionless services
 - (b) Wired and wireless media
 - (c) Telephone system and cellular radio.

UNIT-II

- 3. (a) How are errors detected and corrected in data communication? What is the role of sequence numbers and acknowledgements in error control?
 - (b) Name some important IEEE LAN standards and bring out a brief comparison between them.
- 4. (a) Compare CSMA media access control mechanism with Aloha and slotted Aloha.
 - (b) How does packet switching support data communication?

Download all Notes and papers from Stud



- 5. Discuss the important issues related to internetworking. Also mention the devices commonly used for internetworking along with a distinction between each.
- 6. (a) Compare distance vector and link state routing.
 - (b) How congestion is controlled using Traffic Shaping?

UNIT-IV

- 7. What do you mean by cryptography ? What is the role of keys in cryptography ? Illustrate with the help of suitable examples.
- 8. What is the importance of DNS and World Wide Web applications of a network ? Define web pages, web browser, web server, and search engine.

Bownload all Notes and papers from Stud