Roll No. | | | | | | | | | | | | **Total No. of Pages : 02**

Total No. of Questions : 09

B.Tech. (CSE / IT) (Sem.–4th)

DATA COMMUNICATION

Subject Code : CS-206

Paper ID : [A0460]

Time : 3 Hrs. **Max. Marks : 60**

INSTRUCTION TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.**

SECTION-A

1. Write briefly :

(i) How can you classify transmission media?

(ii) What is multiplexing? Name its types.

(iii) Write the services provided by a data link layer.

(iv) What are the advantages of checksum method?

(v) Write functions of Logical Link Control (LLC) sublayer.

(vi) Write features of E-mail.

(vii) What is WWW?

(viii) State various design issues for the data link layer.

(ix) Differentiate between ALOHA and slotted ALOHA.

(x) What is cryptography?

SECTION-B

2. Compare OSI and TCP/IP reference models.
3. Discuss the Leaky Bucket congestion control algorithm.
4. Differentiate between data link and transport layer communication.
5. What do you understand by DNS? How does DNS work? Explain.
6. Compare IEEE standard 802.4 and 802.5.

SECTION-C

7. Explain in detail OSI reference model. Also write its advantages and disadvantages.
8. What do you mean by transmission medium? Explain in detail the construction, characteristics and applications of various wired media.
9. Explain various static routing algorithms used by the network layer.