

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Tech. (Sem. – 4th)
DATA COMMUNICATION
SUBJECT CODE : CS - 206
Paper ID : [A0460]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hrs.

Max. Marks : 60

Instruction to Candidates:

1. Section -A is **Compulsory**.
2. Attempt any **Four** questions from Section - B.
3. Attempt any **Two** questions from Section - C.

SECTION - A (10 *2 = 20 Marks)

Q1.

- a) What is switching? Discuss its types.
- b) Differentiate between infrared and light wave.
- c) Give limitations of parity checking.
- d) Write functions of Media Access Control (MAC) sub layer.
- e) Name elements of transport protocols.
- f) What is multimedia?
- g) What are the uses of computer networks?
- h) What are sliding window protocols?
- i) Differentiate between TCP and UDP.
- j) What is sub netting? Why it is used?

SECTION - B

(4*5 = 20 Marks)

- Q2. What are different framing methods?
- Q3. Explain characteristics, advantages and disadvantages of optical fiber cables.
- Q4. Discuss the Token Bucket congestion control algorithm.
- Q5. Explain E-mail architecture and services.
- Q6. Differentiate between LAN, MAN and WAN.

SECTION - C

(2*10 = 20 Marks)

- Q7. Explain in detail TCP/IP reference model.
- Q8. Differentiate between 802.3, 802.4 and 802.5 IEEE standard.
- Q9. Explain various static routing algorithms used by the network layer.