

Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

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 Hours

Maximum 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

Q1)

(10 x 2 = 20)

- 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) sublayer.
- 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 subnetting? Why it is used?

Section - B

(4 x 5 = 20)

- 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 x 10 = 20)

- 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.