

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) Define baud rate.
- b) What is terrestrial microwave?
- c) What are TLD servers?
- d) What is hamming distance?
- e) List two important features of LAN.
- f) Differentiate between static and dynamic routing algorithms.
- g) What is multiplexing at transport layer?

- h) Define congestion.
- i) What is subnetting?
- j) How many classes are there for IP4 addresses?

SECTION - B

(4*5 = 20 Marks)

- Q2. Discuss the design issues of network layer.
- Q3. List the advantages and disadvantages of optical fiber transmission media.
- Q4. How buffering is handled in transport layer?
- Q5. Explain flooding routing algorithm with example.
- Q6. Explain stop and wait data link protocol with suitable diagram.

SECTION - C

(2*10 = 20 Marks)

- Q7. Explain the meaning of various fields of the TCP header with example.
- Q8. Describe the various congestion control algorithms with examples.
- Q9. Explain the various layers of OSI model and compare it with TCP/IP model.