

Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

B.Tech. (Sem. – 7th & 8th)
COMPUTER NETWORKS
SUBJECT CODE : CS - 402

Paper ID : [A0328]

[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 × 2 = 20)

- a) What is the difference between Half duplex and Full duplex?
- b) What is the meaning and application of Repeater?
- c) What are the applications of Transport layer in OSI model.
- d) Explain two main differences between ARP and RARP.
- e) Describe the difference between analog and digital signals.
- f) Explain the following terms: information capacity, bit rate and baud.
- g) Describe the star, bus and ring topology of LAN.
- h) How does the IEEE define LAN.
- i) Compare the advantages and disadvantages of baseband and broadband transmission.
- j) What is the meaning of HTTP.

Section - B

(4 × 5 = 20)

- Q2)* What is the difference between Message and Packet switching? Explain types of packet switching, in detail.
- Q3)* What is OSI model briefly describe the TCP/IP protocols models.
- Q4)* What is meaning of flow control and its types, Explain in detail.
- Q5)* List and describe three types of addresses used in LAN.
- Q6)* What is Routers, explain its working and applications.

Section - C

(2 × 10 = 20)

- Q7)* What is error detection explain CRC in detail with the help of example.
- Q8)* List the advantages of UDP over TCP. Describe how TCP is encapsulated in an IP datagram.
- Q9)* Write a short note on any two:
- CSMA/CD
 - Token Ring
 - FDDI

