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

Total No. of Questions : 09

B.Tech. (ECE) (Sem.–7th, 8th)
COMPUTER NETWORKS
Subject Code : CS-402
Paper ID : [A0328]

Time : 3 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)**

l. Write short notes on :

(a) What is the function of DNS ?

(b) What is the meaning of Socket?

(c) What are the applications of Transport layer in OSI model?

(d) What is the meaning of SLIP?

(e) Describe the difference between analog and digital signals.

(f) What is the meaning of SMTP ?

(g) Describe the star, bus and ring topology of LAN.

(h) Define push feature of TCP.

(i) Compare the advantages and disadvantages of baseband and broadband transmission.

(j) Why CSMA/CA cannot used in wireless network?

SECTION-B   **(4 × 5 = 20 Marks)**

2. Explain the difference between message switching and frame relay.

3. What is the difference between guided and unguided transmission media? Explain the guided transmission media and its advantages over unguided media.

4. What is meaning of error control and its types? Explain in detail.

5. What is FDDI? Explain its working and applications.

6. What is Routers explain its working and applications?

SECTION-C $(2 \times 10 = 20 \textbf{ Marks})$

7. (a) What is error detection. Explain CRC in detail with the help of example.

   (b) Explain the sliding window flow control in Detail.

8. List the advantages of UDP over TCP. Describe how TCP is encapsulated in an IP datagram.

9. Write a short note on any **TWO** :

   • Bridges.

   • HDLC and SDLC

   • ARP and RARP protocols