Roll No.

B.Tech.(CSE, IT) (Sem.-4ᵗʰ)

DATA COMMUNICATION

Subject Code : CS-206

Paper ID: [A0460]

Time: 3 Hrs.   **Max. Marks: 60**

INSTRUCTIONS TO CANDIDATE:

1)   *Section-A is Compulsory.*

2)   *Attempt any Four questions from Section-B.*

3)   *Attempt any Two questions from Section-C.*

SECTION–A

1.   Define the followings: **(10x2=20)**

   a)   LAN

   b)   Router

   c)   Hub

   d)   Un-guided transmission media

   e)   Subnets

   f)   CDMA

   g)   WWW

   h)   Switching

   i)   Connection oriented service

   j)   E-mail

SECTION- B

(4 x 5 =20)

2.   List the advantage and disadvantages of using optical fibers.

3.   What is congestion? How is it handled in transport layer?

4.   What is routing? Discuss distance vector routing protocol.

5.   Explain the working of sliding window protocol with the help of an example.

6.   Discuss the error detection and correction techniques with examples.

SECTION - C

(2x10=20)

7.   Discuss OSI reference model in detail. Compare and contrast it with TCP/IP reference model.

8.   Discuss IEEE 802 standards for LAN.

9.   Write a short note on any two of the followings:
   a)   TCP service model
   b)   DNS
   c)   Cryptography

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