TED(15)-4132   Reg. No ....
(REVISION-2015)

Signature ....

MODEL QUESTION PAPER (REV-15)
FOURTH SEMESTER DIPLOMA EXAMINATION IN EGINEERING/TECHNOLOGY
DATA COMMUNICATION
(Maximum Marks: 100)

TIME : 3HRS

PART -A
Answer **all** Questions in one or two sentences.Each question carries **2marks**
I

       1.What is internet?
       2.List any two network attributes
       3.What is multiplexing?
       4.What are the different types of transmission media?
       5. What is bit stuffing?   5x2=10

PART-B
Answer any **FIVE** of the following questions. Each question carries **6 marks**.
II

       1.Discuss the Layered approach
       2. Discuss different data representation forms
       3.Differentiate analog and digital signals
       4.Explain Amplitude shift keying
       5..Explain the advantages and disadvantages of twisted pair cable
       6.What are the different reqirements for error control mechanism
       7.Explain the framing concept   5x6=30

PART-C
Answer **One** full question from each Unit.Each question carries **15 marks** .

UNIT I
III

       1. Explain ISO-OSI architecture with diagram   15
OR
IV

       1. Explain Bus and Ring topologies with their advantages and
         disadvantages   10
       2. Explain different charecteristics of LAN   5

UNIT II
V

       a. Explain different types of multiplexing techniques   15
OR
VI

       a. Illustrate the need of modulation of analog signals and explain different

modulation methods 15

UNIT III

VII

    a.Explain circuit switching with its different phases   15

OR

VIII

    a. Explain different unguided medias   15

UNIT IV

IX

    a.What are the different types of errors   6

    b. Explain stop and wait protocol   9

OR

X

    a.List the functions of datalink layer   6

    b.Explain different datalink protocols   9