



**TED(15)-4132  
(REVISION-2015)**

Reg. No .....

Signature .....

**MODEL QUESTION PAPER (REV-15)  
FOURTH SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/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 requirements 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