B.TECH. DEGREE VII SEMESTER EXAMINATION IN
INFORMATION TECHNOLOGY, JUNE 2001

IT 705 (A) INTRODUCTION TO ISDN

Time: 3 Hours   Maximum Marks: 100

(All questions carry *equal* marks)

MODULE - I

I. Illustrate ISDN digital services. How does the ISDN channels help in data transmission? Explain.

OR

II. Explain the following:
   (i)   Access Interfaces
   (ii)   TLL
   (iii) Functional devices and Reference points
   (iv)   CCITT I – series Recommendations

MODULE - II

III. Illustrate the bearer services and its attributes in detail.

OR

IV. Differentiate between residential and business service requirements.

MODULE - III

V. Explain LAPB and LAPD layer 3 user network signalling.

OR

VI. Explain the following:
   (i)   Protocol planes   (ii)   Basic circuit mode calls
   (iii) Human network Interface (iv)   Message format

MODULE - IV

VII. Explain $X \cdot 25$ packet-mode services. Give an $X \cdot 25$ call example.

OR

VIII. Explain the following:
   (i)   FMBS
   (ii)   ATM and AAL
   (iii) Switched multi Megabit data services
   (iv)   FMCC

MODULE - V & VI

IX. Explain T_1 carrier networks, PBX in detail.

OR

X. Illustrate the following:
   (i)   ISDN chipsets   (ii)   Sub-DSO applications
   (iii) LAN and MAN   (iv)   SS7 services