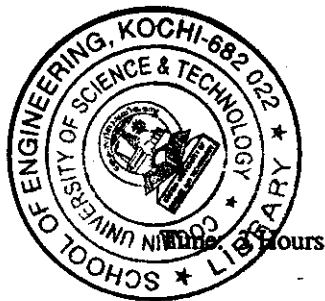# B.Tech. Degree VII Semester (Supplementary) Examination in Information Technology
## March 2003

### IT 705 (A) INTRODUCTION TO ISDN
*(1995 & 1998 Admissions)*

Time: 3 Hours                                                Maximum Marks: 100

(All questions carry *EQUAL* marks)

I.     Explain the general structure of a switched network.
       Explain an application of ISDN.
                              **OR**

II.    Explain -
      (i)     Digital Telephony
      (ii)    ISDN channels
      (iii)   OSI models
      (iv)    ISDN applications

III.   Explain NT1 and NT2 in ISDN.
                              **OR**

IV.    Explain ISDN services.

V.     Briefly explain –
      (i)     LAPB and LAPD
      (ii)    Link Access Procedure
      (iii)   Message format
                              **OR**

VI.    Explain numbering and addressing plans for network service.
       Briefly explain ISDN protocol architecture.

VII.   Explain various packet and frame mode bearer services.
                              **OR**

VIII.  Explain –
      (i)     ATM layer
      (ii)    ATM adaptation Layer
      (iii)   Frame Relay

IX.    Explain various ISDN products. Briefly explain TCP/IP.
                              **OR**

X.     Explain Intelligent networks. Explain SS7 protocol services.

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