

***B.Tech. Degree VI Semester Examination in Computer Science and
Engineering, November 2001***

**CS 601 DATA COMMUNICATION
(1995 Admissions)**

Time: 3 Hours

Max. Marks: 100

- I a) Write short notes on synchronous and asynchronous transmission. (5)
b) Explain different types of ISDN channel structures. (15)

OR

- II a) Where do we use digital modem sharing unit in digital network? (5)
b) Explain the building blocks in a typical network configuration. (15)
- III Explain different pulse modulation techniques. (20)

OR

- IV State any three factors which are considered to test the condition levels of voice grade channel. Explain CI conditioning. (20)
- V Explain different types of ARQ implementation. (20)

OR

- VI What you mean by Forward Error Correction? Explain the block codes and Convolution codes for FEC. (20)
- VII What are the general functions of line control procedures in data communication? (20)

OR

- VIII Give a brief account of SDLC. (20)
- IX What are the benefits of using an optical fiber in data communication? Explain its use in LAN. (20)

OR

- X What are the analog signal conversion requirements in voice grade telephone line? (20)

