

NAME _____

ROLLNO _____

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY-2008

**III B.TECH II SEMESTER SUPPLEMENTARY EXAMINATIONS
DATA AND COMPUTER COMMUNICATIONS
(ELECTRONICS COMMUNICATIONS & ENGINEERING)**

AUG/SEP-2008

**MARK-3 HOUR
MARK-80**

ANSWER ANY FIVE QUESTIONS. ALL QUESTIONS CARRY EQUAL MARKS.

MARKS [16*5=80]

1. (a) Draw Simplified Communication model and explain in detail.
(b) Write Short notes on transmission media.
2. (a) Describe the asynchronous and synchronous transmission with suitable example for each.
(b) Describe the various data link configuration with its comparisons and applications.
3. (a) Explain the frame format of HDLC.
(b) Describe the characteristics of HDLC.
4. (a) Explain the Statistical TDM with a suitable diagram.
(b) Describe the operation of Synchronous TDM with an example.
5. (a) Compare and contrast the various packet switching techniques.
(b) What are the different available configurations for datagrams & virtual circuits? Explain the operation of the same.
6. Compare IEEE 802 protocol layer with OSI model.
7. (a) What are the various fields in LAPD frame format? Explain in detail.
(b) What are the various functions of the B-ISDN layers? Explain in detail.
8. (a) What are the advantages of virtual paths?
(b) Explain the steps involved in call establishment using virtual path in ATM.