2005 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

III B.TECH I SEMESTER SUPPLEMENTARY EXAMINATIONS
BASIC TELEMATICS
(ELECTRONICS & TELEMATICS)

NOVEMBER 2005

TIME – 3 HOUR
MARK – 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Explain about simplex, half duplex and full duplex operation in detail.

(b) Write about RS422, RS485 and RS423,   [8+8]

2. (a) Compare and contrast different multiplexing techniques.   [8+8]

(b) Draw the circuit diagram of Transmission bridge and explain its operation.

3. (a) Explain in detail the principle of signaling on junction lines and Trunk lines.

(b) Explain in detail about Trunking arrangement in a 4-digit exchange.   [8+8]

4. (a) Explain in detail about private automatic branch exchange.

(b) Compare private automatic branch exchange and Trunk automatic exchange. [8+8]

5. Explain in detail about open wire carrier system and compare it with coaxial cable carrier system.   [16]

6. (a) Explain the operation and use of synchronizers and regenerators in transmission of signals in submarine cables.

(b) Explain in detail the digital switching system.   [8+8]

7. (a) Explain in detail about ISO/OSI reference model.

(b) Write about different types of switching.   [8+8]

8. Write short notes on:

(a) Routing

(b) CDMA

(c) RAM/ROM spc exchange.   [5+5+6]