JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY-2006

IV B.TECH II SEMESTER REGULAR EXAMINATIONS
INTERNET TECHNOLOGIES
(INFORMATION TECHNOLOGY)

NOVEMBER 2006

TIME-3HOUR
MARKS-80

ANSWER ANY FIVE QUESTIONS ALL QUESTIONS CARRY EQUAL MARKS.

1. (a) Discuss in brief the history of Computer Networks

(b) Discuss in brief about ATM & Broadband ISDN.

2. (a) Consider a packet switching network of N nodes connected by Star, Loop and Fully connected.Give the average number of hops between stations for each case.

(b) Discuss

i. X.25

ii. Frame relay architecture.

3. (a) What is the need for flow control and error control.

(b) Discuss the various flow and error control techniques of DLL.

4. (a) Discuss HDLC protocol

(b) A world wide web server is usually set up to receive relatively small messages from its clients but to transmit potentially very large messages to them. Explain, then, which type of ARQ protocol would provide less of a burden to a particularly popular WWW server.

5. (a) Give the OSPF packet format with discussion

(b) What are the RIP limitations

(c) What is adptive routing. [6+5+5]

6. (a) What is ISA? Explain in detail?

(b) Explain the functions used by ISA to manage congestion and QoS support?

7. (a) What are the desirable properties for real time communications.

(b) What is the diffeence between hard and soft real time applications.

8. What is simple network management protocol? Discuss