2005 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

IV B.TECH. II SEMESTER SUPPLEMENTARY EXAMINATIONS
INTERNET INTRANET & MULTIMEDIA
(ELECTRONICS & TELEMATICS)

JULY -2005

TIME: 3 HOURS
MAX MARKS:80

Answer any FIVE Questions
All Questions carry equal marks

1. . (a) What is a router? Why is it required? Describe the entries in a typical router table.

(b) With the help of a diagram illustrate how a router enables the aim of a Universal Service.

2. (a) How is an ARP message encapsulated in an Ethernet frame? What is the significance of a type field in an Ethernet frame header?

(b) On the event of a frame arrival, how does a computer differentiate an IP datagram from an ARP message?

3. Draw and explain the basic architecture of an intranet, along with its key hardware and software components.

4. (a) What are the forms that a hardware security device can take, and how are they beneficial when compared to software security devices?

(b) Write a short note on private key management.

5. (a) What is cryptography? What is encryption/decryption? What is a digital signature?

(b) Explain in detail how encryption / decryption and digital signatures useful in making information on the Intranet confidential or secure.

6. Describe macintosh platform with its application and merits and also compare this platform with others.

7. What are different types of authoring tools and explain about various features you expect in detail.

8. What objectives do you want to have in an MPEG motion video compression standard? Discuss the architecture of MPEG video compression standard.