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) Enumerate the format of an IP datagram header. Which fields are necessarily global Internet addresses?

    (b) With the help of an example, bring out the use of a mask field in a routing table entry.

2. (a) What is the need of ARP (Address Resolution Protocol) in the TCP/IP suite?

    (b) What are the basic message types used in ARP? What are their contents, and how are they used?

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) Specify the significance of security to your Intranet?

    (b) Explain in detail about the types of threats that normally encountered by any Intranet system.

6. (a) Distinguish the terms nonlinear multimedia, interactive multimedia and hy-permedia?

    (b) What is the use of multimedia in school education?

7. Write about the Basic software tools used for creating the multimedia content of the multimedia project i.e . for creating various multimedia building blocks such as text , images , sound , graphics and animation

8. (a) Write the objectives of JPEG Image compression standard? Write about various architectures in which JPEG is implemented.

    (b) Explain how Quantization along with discrete cosine transform encoding per- formed in JPEG image compression.