

IV B.Tech. II Semester Supplementary Examinations, July -2005
INTERNET INTRANET & MULTIMEDIA
(Electronics & Telematics)

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) Explain how caching enhances network utilization efficiency.
(b) What actions are taken by the receiver for processing an ARP message immediately on arrival? How do they lead to further optimization of network resource usage?
3. (a) What is a DNS (Domain Name Server)? Why is it required for an intranet? Enumerate the conditions under which it is not essential for use in an intranet
(b) Give any four applications which an intranet provides, but a normal LAN does not.
4. (a) What is authentication? How is it different from authorization?
(b) Briefly discuss digital signatures and how they are implemented.
5. (a) “Prepare for the unexpected” Is this statement has any relevance for Intranet security? Support your reasoning with proper explanation.
(b) Explain about various security vulnerabilities that you need to be aware to implement a good security program for Intranet.
6. Write down various steps involved in production, planning and delivery phases for successful development and deployment of a multimedia product.
7. (a) Describe following animation techniques
 - i. cell animation
 - ii. computer animation
(b) Explain how you can create an animated scene with an example.
8. Define synchronization? Explain in detail how you can achieve intermedia and intramedia synchronization for multimedia system?

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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 hypermedia?
(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 performed in JPEG image compression.

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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.

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1. With the help of an illustrative diagram explain how a combination of virtual and physical address schemes can result in interconnecting heterogeneous computers for a Global internet. Specify the protocols used at each stage.
2. (a) With the help of an example, explain what is an IP datagram?
(b) In the following routing table, what will be the next hop for a datagram destined for 192.4.10.3.

DESTINATION	MASK	NEXT HOP
30.0.0.0	255.0.0.0	40.0.0.7
192.4.10.0	255.0.0.0	DELIVER DIRECT
192.4.10.0	255.255.0.0	DELIVER DIRECT
192.4.10.0	255.255.255.0	128.1.0.9

3. (a) What is an ActiveX control? Explain how it is used on an intranet?
(b) Explain how Java code is platform independent.
4. (a) What is a search engine? What is its use in an Intranet?
(b) Explain the technique that a search engine uses to fulfill its assigned role.
5. (a) What is sniffer? What is a smart disk? What is a worm?
(b) Explain how certificate issuer and server issue key and manage certificates.
6. (a) What are the basic components involved in multimedia? What is an authoring tool?
(b) Write about various people involved in successful development of multimedia project and explain about their roles.
7. (a) What are bitmap images? How are they made? What are vector drawn images?
(b) Differentiate between bitmap and vector drawn images.
8. Write about the musical Instrument synthesizers in creating Digital music? Explain in detail about MIDI protocol.
