

IV B.Tech. II Semester Regular Examinations, April/May -2005
INTERNET INTRANET & MULTIMEDIA
(Electronics & Telematics)

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 structure of a frame when an ICMP message is sent.
(b) Give any three cases in which an ICMP error messages can be sent during IP messaging. How can ICMP be used to trace the route taken by a lost packet?
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 the need for securing your Intranet?
(b) What is malicious code? What is a sniffer?
(c) Explain the strategies for creating an effective security policy for your Intranet.
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. 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. Define synchronization? Explain in detail how you can achieve intermedia and intramedia synchronization for multimedia system?

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1. (a) Illustrate how the various TCP/IP Internet Protocols have influenced internet architecture by developing a virtual network system.
(b) What is a multi-homed host(computer), and why is it used?
2. (a) Enumerate the format of an IP datagram header. Which fields (8) 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.
3. Draw and explain the basic architecture of an intranet, along with its key hardware and software components.
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) “ 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. List various hardware peripherals used in multimedia production and presentation .Explain about them.
7. (a) What are bitmap images? How are they made? What are vector drawn images?
(b) Differentiate between bitmap and vector drawn images.
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) Draw the format for an ARP message when used to bind Internet protocol addresses to Ethernet hardware addresses.
(b) Explain a sample ARP exchange by computers on an internet.
3. Draw and explain the basic architecture of an intranet, along with its key hardware and software components.
4. (a) Enumerate the security threats that an intranet is vulnerable to.
(b) How are each one of the threats you have listed to be countered?
5. (a) What are potential threats and vulnerabilities for any Intranet security?
(b) Explain the basic concepts that are essential to any security system.
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. 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. What is meant by orchestration or meta scheduling. Explain the QOS architecture by specifying the QOS parameters and several approaches for providing QOS guarantees in high speed network.

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1. (a) How uniform addressing (to create the illusion of a seamless network) is provided in an internet?
(b) What is the basis of the IP address hierarchy (addressing scheme)?
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 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) What are potential threats and vulnerabilities for any Intranet security?
(b) Explain the basic concepts that are essential to any security system.
6. (a) Distinguish the terms nonlinear multimedia, interactive multimedia and hypermedia?
(b) What is the use of multimedia in school education?
7. What are different types of authoring tools and explain about various features you expect in detail.
8. What is meant by orchestration or meta scheduling. Explain the QOS architecture by specifying the QOS parameters and several approaches for providing QOS guarantees in high speed network.
