Candidates for Mid-term Exam

April 16, 2004

1. Describe reason why we need to deploy the IPv6
2. What is NAT? If we use NAT functions, don't we need to deploy IPv6?
3. How was IPv6 Address Size Chosen?
4. Explain the basic address types of IPv6 in detail.
5. Describe several choices for configuring the interface ID of an address
6. Explain about HD Ratio described in RFC 3194.
7. Explain the concept of zone and scope in IPv6.
8. Describe of the auto-configuration in IPv6
9. Describe of the IPv4/IPv6 transition techniques.
10. Describe hot issues of IPv6 in 59th IETF Meeting.
11. Explain of tunneling using Care-of-address of IPv4 and triangle routing problem.
12. Explain how to prevent replay attack for registration of mobile node.
13. Describe of route optimization in IPv4
14. Explain of the difference the Mobile IPv4 and Mobile IPv6 in detail
15. How can we use Return Routability protocol?
16. Read the recent Mobile IPv6 issues in 59th IETF meeting and describe of your interesting issues
17. Explain the terminology related to network mobility and nested mobility
18. Explain usefulness of Multi-homing in network mobility (need to read IETF internet draft about this issue)
19. Explain of AH and ESP Protocol in detail
20. Describe four combination cases for authentication and confidentiality in IPsec