1. Explain the addressing scheme used in Mobile IP?

2. One simple method to implement mobility is to let the mobile host change its address as it goes to the new network. The host can use DHCP to obtain a new address to associate it with the new network. What are the drawbacks with this approach?

3. What role does a mobile host, a home agent and a foreign agent play in mobile IP protocol?

4. How does the home agent intercept a packet that is destined for the mobile node? What is “gratuitous ARP”?

5. What does “triangle routing” mean in the context of mobile IP? How does Route Optimization scheme suggested for mobile IP solve this problem?

6. Consider two mobile hosts in a foreign network having a foreign agent. Is it possible for the two mobile nodes to use the same care of address in mobile IP? Explain your answer. Is it necessary for a foreign agent to explicitly deregister a Care of Address (COA) when a mobile host leaves its network?

7. Explain the concept of tunnel soft state.

8. (Class Discussion) It is believed that HA and FA functionality must be placed in the router. Discuss some issues related to HA/FA functionality placement at router.