Candidate Problems for Future Internet Mid-term Examination

2015. 4.

1. Why do we need Future Internet?
2. What are the core technologies (concepts) for Future Internet?
3. If you are an Internet designer, how can you accomplish Clean Slate approach and Evolutionary approach, respectively?
4. Explain the details of current access networks.
5. What are the examples of the WSN applications?
6. Explain the ways of connecting WSN to Internet.
7. Explain the spiral development methodology.
8. Explain the directions towards the future access networks
9. Describe the Internet-connected devices what you are interesting.
10. Explain on the DTN Concept.
11. Explain the difference between current Internet and DTN routing.
12. What is the Open Source Software (OSS) with GPL meaning?
13. What is the Ubuntu?
14. Explain the Open Routing Platforms based on OSS including their architecture.
15. Why do need to have GNU radio and what is it?
16. Explain the details of OpenWRT?
17. What is OpenStack and explain its architecture?
18. What is CloudStack and explain its architecture?
19. What is the difference between OpenStack and CloudStack? (you can easily see it in Google!)
20. What is the Open vSwitch?
21. What is virtualization?
22. Explain the specification of the Raspberry Pi 2?
23. Explain the specification of the Arduino?
24. Explain the service discovery model.
25. What is the Programmable Path?
26. What is the flat routing?
27. Explain the differences between Mobile IPv6 and MIPv6?
28. Explain on the host-based mobility and network based mobility.
29. Explain the usage of the IP address as the ID and Locator.
30. Explain the 6LowPAN architecture.
31. Explain features of the FIA projects.
32. What are the motivations of proposal of the OpenFlow?
33. Explain what the northbound API and southbound API are
34. Explain the SDN Stacks in Switch Level, Slicing SW Level, Controller level, Applications level and Monitoring/debugging tools level.