

IT 340 – Network Management

Assignment No. 3

Due Date: 9th April, 2016 (Saturday, 11:59 pm)

Total Marks: 5

Question No. 1

In addition to the management applications defined by the OSI model, we can consider reports such as system reports and user reports. Explain why. **[0.5 mark]**

Useful for analysis, etc.

Question No. 2

The OSI model specifies five main management applications: configuration, performance, fault, security, and accounting. Give three details of configuration application. **[1.5 mark]**

Network topology discovery

Network provisioning

Inventory management

Question No. 3

How SNMPv3 addresses the following threats: masquerade and modification of information? **[1 mark]**

By the authentication module, respectively by verifying data origin and data integrity

Question No. 4

What is the advantage of a small cell size in ATM? **[0.5 mark]**

To reduce the delay in switching and packetization

Question No. 5

Explain how MPLS combines between the richness of IP and the performance of ATM networks **[1 mark]**

The ingress and egress router process the packet header and add/remove label like in IP networks. However, inside the MPLS network, the switching of the packets between LSRs is rapid like in ATM networks

Question No. 6

How using LSP traceroute in fault isolation? **[0.5 mark]**

The packet is sent to the control plane of each transit LSR, which performs various checks that it is indeed a transit LSR for this path