**1.Question 1**

**Which of the following constituted advantages to AT&T's elimination of in-band signaling from the phone network in the 1980s?**

Ans:

Introduction of new services

Reduction of expenditures

**Question 2**

**What types of functions were enabled by active networks?**

Ans:

Code installed on nodes in the network (e.g., at routers and switches) could process packets.

A single node in the network could perform more than one function on a packet or stream of packets (e.g., firewalling, followed by load balance).

Packets carrying code in the payload could be executed on intermediate nodes in the network (e.g., routers, switches)

**Question 3**

**Which of the following is true about network virtualization?**

Network virtualization allows multiple service providers to share the same underlying physical infrastructure.

Virtual networks can be realized by dividing switch forwarding tables based on fields in the packet header (e.g., IP address and port).

**Which of the following are true about various systems developed for central control of packet-switched networks?**

The RCP could be deployed within a single ISP network, without coordination across multiple ISPs.

Ethane's initial goal was to support authentication of hosts in enterprise networks.

**Which three artifacts and lessons that active networks affected the development of software-defined networks? Select all that apply.**

programmable functions

demultiplexing

packet headers