

## Question 3:

- **A)** In a Kerberos infrastructure, what is the difference between an Authentication Server (AS) and a Ticket-granting Server (TGS)?
- **B)** What is a Kerberos realm? What are the requirements for supporting authentication even across different realms?
- **C)** *“In a decentralized authentication service such as Kerberos V4, the Authentication server encrypts the Ticket that the clients require for accessing a Ticket-granting server (TGS), using AES and the Public Key of each TGS. Its biggest strength is that it provides authentication which is time independent. On the other side, one of its main technical deficiencies is that it is prone to master database changes that are originated outside the master computer system (e.g. from another Realm). This is what Kerberos 5 attempts to address.”*

What is wrong with my claim above? Why?