**NICODENUS MUIMI MALOMBE**

**P101/1749G/21**

**CAT TWO**

**CLOUD COMPUTING**

**Question One**

Demystify each of the following common myths about cloud computing. (2 marks)

1. Cloud computing requires you to expose your data to the outside world

Myth: Many believe that adopting cloud computing means losing control over data privacy by exposing it to external entities.

1. Cloud computing requires virtualization.

Myth: It's commonly assumed that cloud computing exclusively depends on virtualization technologies such as virtual machines (VMs).

**Question Two**

Discuss the Cloud Service Life Cycle. (8mks)

 **Service Strategy and Design**

* Define the objectives, target users, and purpose of the service.
* Plan service architecture, security protocols, and Service Level Agreements (SLAs).

 **Service Development and Deployment**

* Develop the cloud service infrastructure or application according to specifications.
* Test for functionality, security, and performance before deployment.
* Launch the service in production environments.

 **Service Operation and Management**

* Monitor and manage the service to ensure reliability, performance, and security.
* Handle user support, incidents, and resource allocation efficiently.

 **Service Optimization**

* Analyze user feedback and performance metrics to improve the service.
* Upgrade features, scalability, and security to adapt to user needs.

 **Service Retirement**

* Plan for and notify users about service discontinuation.
* Safely migrate data to alternative solutions if necessary.
* Decommission resources and ensure compliance with regulations.