

1. Consider a scenario where an Organization looking for cloud solution to serve its multiple users requiring **a storage capacity** in the range of Terabytes each and would like to have an infrastructure **to deploy their applications**.
  - a. Suggest a cloud deployment model and service model for the above scenario with justification.

#### **Cloud Service Model : PaaS**

- According to the scenario the organization is looking for PaaS Service model.
- PaaS mode provides the platform for deployment/launch of applications .
- This enables the developers to build the software without worrying about operating system , software updates, storage or infrastructure.
- If the organization utilize PaaS then this service model offers numerous advantages
- ❖ Simple, cost-effective for development and deployment of applications.

Scalable – when the demand is high the cloud service provider will manage to scale up the resources.

- It is build on virtualization technology so the resources can easily be scaled up or down as your business changes
- ❖ The services is available to numerous users via the same development application
- ❖ Developers can customize applications without the headache of maintaining the software.

- ❖ Automation of business policy
- ❖ Easy migration

When the organization uses PaaS, then it can provide great speed, flexibility to the entire process.

### **Deployment model: Private**

**The main reasons for private deployment model :**

- 1) Customization: companies get to customize their solution per their requirements.**
- 2) Data privacy: only authorized internal personnel (employees/ members) can access the data.**
- 3) Security: the organization can separate sets of resources on the same infrastructure based on access control mechanism.**
- 4) Full control: The owner of the organization controls the service integration, IT operations and user practices.**