Module01

1.	Why Study Cloud Computing Phenomenon?
	□ Adoption of cloud computing is significantly <u>rising</u> in organisations.
	□ Cloud computing is seen as a <u>leading technology</u> in the coming decade.
	☐ Cloud is driving optimization and innovation of business models in
	organisations
	☐Trends li

2. What is Cloud Computing?

A <u>model</u> for enabling <u>on-demand network access</u> to a shared pool of configurable <u>computing resources</u>, (e.g., servers, storage, networks, applications, and services) that can be rapidly <u>provisioned and released</u> with minimal management effort or service provider interaction.

 What has cloud been called in the past?
Centralised Computing - Grid Computing - Distributed Computing - On demand Computing - Hosting - Application Service Provider (ASP)

4. Essential cloud characteristics and benefits (ORRBM)?

cloud characteristics:

O: On-demand self-service

R : Resource pooling

R: Rapid elasticity

B: Broad network access

M: Measured service

- 5. Consumers use **web-based self-service portal** to view a service catalog and request cloud services
- 6. Resource usage can be **monitored**, **controlled**, **and reported**, providing transparency for both the provider and consumer of the utilized.
- 7. What is Cloud Benefits?

cloud benefits:

Business agility - Reduces IT costs - High availability - Flexibility of access - Flexible scaling - Business continuity - Increased collaboration - Masked complexity - Simplified infrastructure management - Application development and testing

8. What is the difference between (laas,Pass,Sass)?

<u>laaS: Infrastructure as a Service</u> The consumer <u>does not</u> manage or Control the underlying cloud infrastructure. User <u>control over</u> operating systems, storage, and deployed applications; and possibly limited control of select networking components, (e.g., host firewalls).

<u>PaaS: Platform as a Service</u> The consumer <u>does not manage or control</u> the underlying cloud infrastructure including network, servers, operating systems, or storage. User <u>has control over</u> the deployed applications and possibly configuration settings for the application-hosting environment.

<u>SaaS: Software as a Service</u> The consumer <u>does not</u> manage or control the underlying cloud infrastructure including network, servers, operating systems, storage, or even individual application capabilities. The applications are accessible from various client devices through either a thin client interface, such as a web browser, (e.g., web-based email, or a program interface.)

- 9. Cloud services brokerage (CSB) is **an IT role and business model** between cloud provider and one or more consumers of that service.
- 10. What is Categories of Cloud Services Brokerage?Service intermediation Service aggregation Service arbitrage
- 11. A cloud deployment model specifies how a cloud infrastructure is **built**, **managed**, **and accessed**.
- 12. What is the difference between cloud deployment models(Public, Private, Community, Hybird)?

<u>Public Cloud</u>: Shared by everyone, like a public park.

<u>Private Cloud</u>: Used by one organization only, like a private backyard.

Community Cloud: Shared by a group of similar organizations, like a communal garden.

<u>Hybrid Cloud</u>: A mix of public and private clouds, like having a private backyard and a public park membership.