UNIT-2 Cloud Computing

Q) What is cloud computing? What are the advantages & disadvantages of CC?

A) The NIST defined cloud computing as a model for allow universal availability of on demand, network access to a shared group of configurable computing resources such as network, servers, storage, application & services.

Cloud deployment model :-

• There are 4 cloud deployment model :-

(i) Private cloud
(ii) Public cloud
(iii) Community cloud
(iv) Hybrid cloud

Private cloud :- This model is designed for a single organization in which there are multiple consumers. The setup can be manage, owned & operated by organization (or) third party (or) both of them.

Public cloud :- This model is designed for general public. The setup can be managed, owned & operated by bussiness, academics, government organization etc... It's located on cloud provided premises

Community cloud :- This model is designed for a group of organizations. The main reason for this setup is if a community having same mission, policy and rule can make their own setup. It's managed

by organization (or) third party.
It can be located on premise (or) off premise

Hybrid cloud:- This model is designed using any combination of private, public (or) community cloud models.

Q) What are various service offering models?

A) There are three service offering models:-
(i) Software as a Service (SaaS)
(ii) Platform as a Service (PaaS)
(iii) Infrastructure as a Service (IaaS)

SaaS:- It allows the user to use software application's as a service to end user.
Ex:- Google Maps; Gmail

PaaS:- It provides the run time environment for applications, development & deployment tools, etc.....
Ex:- Google App Engine

IaaS:- It provides access to fundamental resources such as physical machines, virtual machines, etc.....
Ex:- Amazon EC2

Q) Write Characteristics of cloud computing?

A) **Agility:-** cloud works in distributed computing environment. It shares resources among users & works very fast.
Reliability:- Availability of servers is very high & more reliable because chances of Infrastructure failure are minimum.

Maintenance:- Maintainance of cloud computing is easier, since they don't need to be installed on each users computer's.

Low cost:- By using CC the cost will be reduced because to take the services of cloud computing. A company need not to set it's own infrastructure.

Multi-sharing:- With the help of cloud computing multiple users can work more efficiently.