cloud computing

Define High Performance Computing (HPC)?

Is a discipline refers to using parallel data processing to
improve Computing Performance and perform complex calculations

Type of Computation in which many calculations of frocesses are carried out simultaneously. Large Problems can often be devided into smaller ones, which can be solved at the same time

The Processor machines can be of momogenous or heterogenous type

HPC systems are normally found in those applications where it's required to use of solve scientific problems

As Define Distributed Computing?
- Computing discipline that consists of multiple computers or
processor machines connected through a network

Lomputing discipline that refers to a set of Connected computers that perform a single system. These computers are basic units of a much bigger system, which is called a node

Moefine Grid Computing ?

Network of computing of Processor machines managed with a kind of software such as middleware, in order to access and use the resources remotely

Difference between Grid Computing and electrical

Grid computing	Electric Power Brid
- The infastructure that makes	The intra disclure that makes
this possible is called the computi	
resource such as PCs	Power grid
-The grid is also Pervasive in	
	electricity is available errentially
	everywhere
accessible from different Plafform	
	The Power grid is a utility: we
	ask only for electricity
storage capacity	

Define Cloud Computing?

Delivery of different services through the internet. These resources includ took and applications like data storage, servers, databases and software



Weethe Concepts of biologically derived or simulated models that Perform Computational Processes in order to solve a Problem. It's Combined application of mathematics, spatistics and computer science

Computing discipline that involves mobile communications mobile hardware and mobile software. In mobile computing the processing elements are small

Type of Computation that harnesses the allective fro perties of quantum states, such as superposition, interference and intanglement to perform calculations

- Using the Photons in visible light or infrared beams rather than electric current, to Perform digital Computation

Define Nano Computing?
- Computing systems that are constructed from nano-scale
Components

Jenevic term in Computing which refers to Computers or nodes working together over a network

& cloud computing Vs. Brid Computing ?

Cloud Computing	Grid Computing
- Controlling	(3.00) 1 (0) in A
- Follows client-server computing	- Follows en distributed Computing
architecture	architecture
- scalability is high	- scalability is normal
- more flexible than grid comp.	Less flexible than Good comp.
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is service-oriented	is application-oriented
- Accessible through standard	- Accessible through grid
web Profocols	meddleware
(13 /0 (013	

to cloud Computing Vs. cluster Computing ?

- Performs level of Computational tasks in a modular approach
- Performs level of Computational tasks in a modular approach
tasks in a modular approach
-user memogenous types of resources
- Least Cost effective
- Getway is resposible for
securing all cluster no des
- Requires more maintenance

Eloud Computing Vs. HPC Cloud Cloud Can be scaled over various services	- Can be scaled over parallel Ahreads
- The replication way is Full service replication - Cloud access is comparatively easy - wide rang of platforms is supported to clouds	The replication way is only duta replication HPC access is a Complex and difficult Limited range of platforms is supported to HPC