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Assignment No1
9.1 What is cloud computing & Explain its types with various services.
Cloud Computing :-
practice of using a network of remote servers howted on the internet to store, manage and process data, rather than a local server or a personal computer.
· Types of Cloud Computing Services:
1. Software as A Service: (Saas):  Saas is a way of
Instead of installing and maintaining software, we simply access it via the internet, freeing ourselves from complex software & hardware management
2. Platform as a service: (Paas):
Paas is a catagory of cloud computing that provides a plotform & environment to allow developers to build applications & services over the internet are hosted in the cloud & accessed by users simply via their web browser.
3. Infrastructure as a Service (Jaas):
model that delivers computer infrastructure on an cutsourced basis to support various operation. Typically Iaas is a service where Infrastructure is provided as an cutsource to interprises such as networking equipment durices, database and web servers.
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	4. Anything as a Service:  Most of the cloud services			
	providers nowday offer anything as a service that is a compilation of all of the above services including some additional services.			
<b>Q.</b> 2 →	Discuss recent trends in cloud computing & related technologies.  Developing Quantum computing:			
	As the amount of data collected increases there will be leed to be a shift in processing time. Enter quantum-computing: - A high level of computing that looks to develop computers technology based on quantum theory. This advanced type of computing will help with the quickly organizing, catagorizing & analyzing tool cloud data.			
	Adapting Omni-cloud solution i-  While many companies have selected just one cloud provider, they may find themselves needing multiple cloud vendors to help with future problems.  This tactic is known as Omni-cloud.			
	Transforming Saas to Intelligent Saas:  Software - as - a  service (Saas) will be infused with extra abilities  and become Intelligent Saas. Artificial Intelligence  (AI) will lead the charge on this transformation.			
	Personalizing Cloud Experience:  Right now cloud business are creating solution and application to meet individual client needs If the company is using a hybrid or multi-Cloud Approach then offering personalized			

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option will be even more crucial.
 Perform Comparative study of different computing technologies [Parallel, Distributed, cluster, Grid, Quantum]
Parallel Computing:  Parallel computing is a type of  computing architecture in which several processors  simultaneously execute multiple, smaller calculations  broken down. from all larger complex problem. Parallel  computing refers to the process of breaking down larger  problems into smaller independent, often similar parts  that can be executed simultaneously by multiple processors  communicating via shared memory, the result of Which  are combined upon completion as part of an overall  algorithms.
Distributed Computing:  Distributed computing refers to  solve a problem over distributed autonomous computers  and they communicate between them over a network.  It is a computing technique which allows to multiple  computers to compraunicate and work to solve a single  problem.
Cluster computing:  Cluster computing is a collection of tightly or loosely connected computers that work together, so that they act as a single entity. The connected computers execute operations all together thus creating the edea of a single system. The cluster computing are generally connected through fast local areas networks (LAN's)

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4]	Grid Computing:
	grid computing can be defined as a network of computers working together to perform a task would rather be difficult for a single machine All machines on that computer & network work under the same protocol to act as a virtual supercomputer. Grid computing is a subset of distributed computing.
57	Quantum Computing:
	generation of computers based on quantum mechanics, a physical branch that studies atomic & subatumic particles. These supercomputers perform computation at speed & levels an ordinary computer cannot handle.  Quantum computing is used in Healthcare Quantum computers help develop new drugs at a faster pace. DNA research also befrefits greatly from using quantum computing.
9.4	Do comparative study of different hosted & bare metal Hypervisors with suitable parameters along with their use in public/private cloudplatform.
	Bare-metal Hypervisor:
-	Bare metal hypervisor is a layer of software that we install directly on top of a physical server and its underlying hardware. There is no software or any operating system in between hence the name bare metal hypervisor between brence the name bare metal hypervisor.
	Examples:-
	VMware V sphere with E5x  VMwaver is an industry-leading vendor of virtualization technology, and many large data centers

apps between desktop & cloud environment

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	Windows Virtual PC:
	It only supports windows 7 as a host machine & windows 0.5 on guest machine. This includes multiple version of windows 7 & vista.
9.5	What is service - level Aggrement (SLA) in cloud
<b>→</b>	computing?  A service level Agreement (SLA) is the bond for performance negotiated between the cloud services provider & the client Earlier in cloud computing all services: level agreement were negotiated between a client & the service consumer.
	Service-level-agreements are fundamentals as more organisation rely on external providers for
	their critical systems, applications & data. A cloud 51A ensures cloud providers meet certain entreprise
	level- requirements & provide customers with a clearly defined set deliverables.
	Nowadays, with the initiotion of large utility-like cloud computing providers, must service level agreements are standardized until a client-becomes a larger consumer of cloud service, service level agreements
	are also defined at different levels which are
	• Customer - based SLA • Service based SLA
	· Multiplevel SLA



#### GHARDA FOUNDATION



#### **GHARDA INSTITUTE OF TECHNOLOGY, LAVEL**

### **Department of Computer Engineering**

Academic Year 2021-22

# **Evaluation Sheet**

## **Assignment No.1**

Class: Third Year Semester: VI

Subject: Skill base Lab Course: Cloud Computing Lab Course Code: CSL605

Name of Student: - Sanket Chandrashekhar Harvande Roll No.: \_\_19\_\_\_\_

Sr. No.	Title of Experiments	Marks Obtained (5)	Remarks
1	Oral		
2	Timely Submission		
3	Neatness		
	Total		

Prof.M.A.Khandke & Prof.R.B.Pawar

Subject In-charge