Roll Name. Lewis TYBCA-A 23 Cloud Computing Assign. :- 1 Q'I What is Cloud? What is Cloud Computing? -> Cloud sefers to the use of semate serving Using Usually hosted over the internet.

to store, manage and process data rather than using a local server or PC. · What is cloud compyting: -> The term cloud refers to a metwork or the internet. It uses semote server on the internet to store imanage & access data online rather than local drives. • These are the following operations that we can do using cloud computing. - Analysis of data
- Streaming videos & Andics.
- Hosting blogs & webs.
- Delivery of control ware on demand

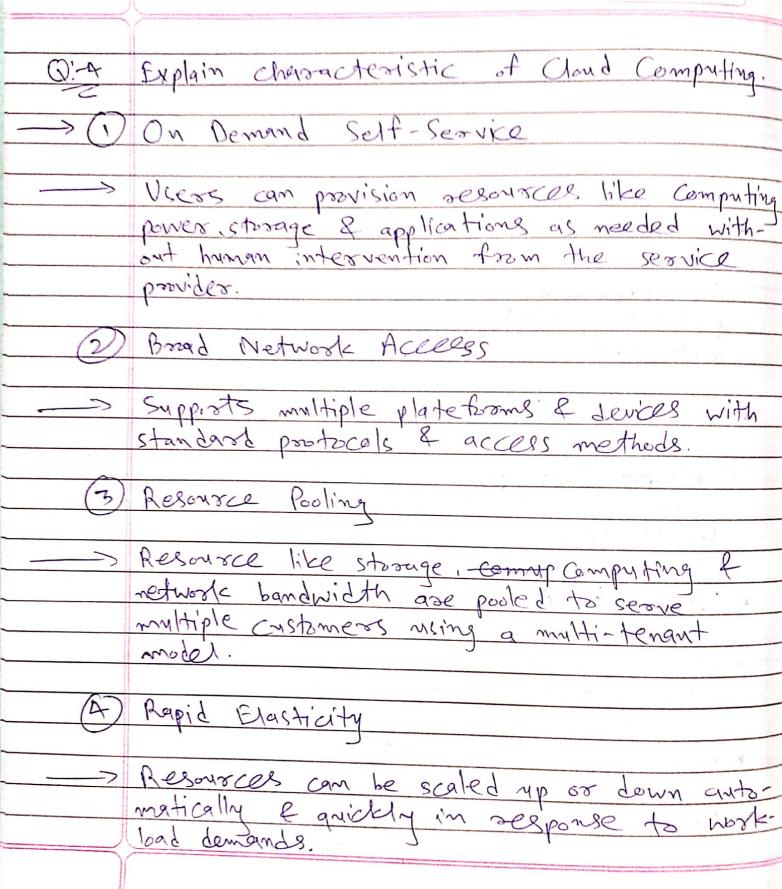


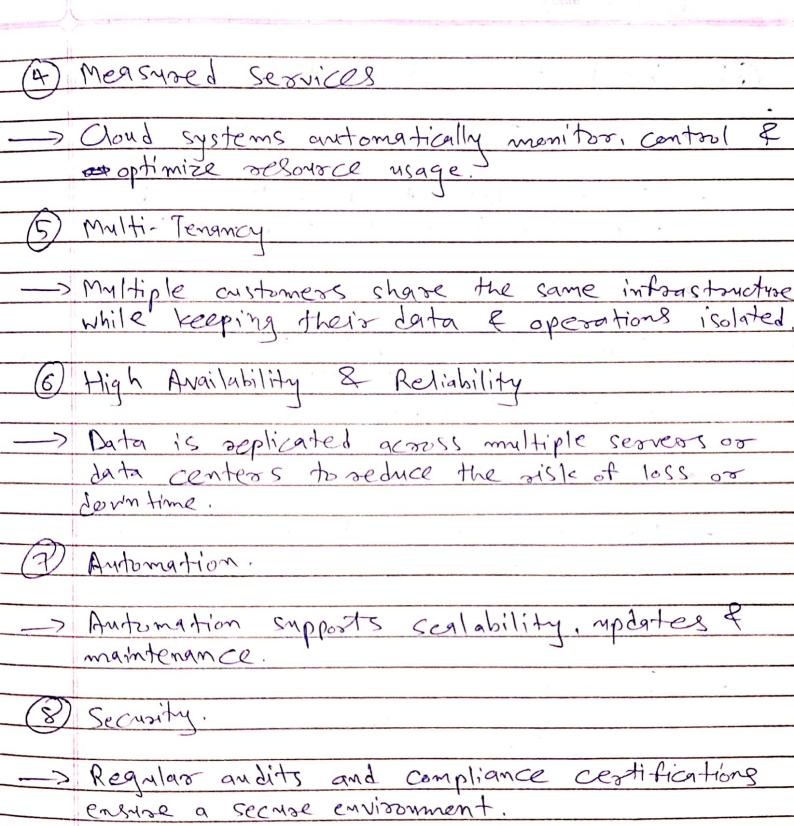
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01-2	Explain Cloud Computing & exercise Model.
>	The cloud computing reference model
	provides a transmost to understand The
6.3	aschitecture components in cloud computing
(Software as a service (Saas)
	The state of the s
>	Provides sesources such as virtual machine
	storage & networking.
	·
\longrightarrow	It is possible to define software as a
	service as the model of cloud compriting
1 14 11	in which the application is devel
	delivered by a third party by directly
	accessing the application from the web
3	sather them installation in local or
	organization local servers.
	J.
•	Features:
0.0	
	Hosted on the cloud.
(2)	Accessed via the internet

	Date / /
•	Featyses
\Box	Vistualized Compute Resources:
4	
(D)	Scalability & Elasticity:
()·-75	Explain Benefits of Glorid Computing
0.	Explain Dencins of Clare
•	Cost Efficiency
>	You only pay for the sesonrals you use, avoiding uptount capital expenses for hardware or intrastoucture.
	avoiding uptount capital expenses tor
	hardware or intrastrycture.
0	Scalability & @ Plexibility
	Carlo -tua - destata - 28 minus - 2 lila schange
	Scale sup or down sesources like storage & computing power based on current needs.
	polyect beiset on (Masselli Meets)
•	Enhanced Collaboration
/·	Teams can access files & applications from anywhere with an internet connection.
	anywhere with an internet connection.
	J
	·

- · Speed & Agility
- -> Services & infrastructure can be set up in minutes.
 - · Enhanced Security
- protocols including encryption, firewalls & multi-factor anthentication.
 - · Automatic Updates
- > It pro cloud providers handle coffugae P hardware updates encuring your always use the latest tech.
 - · Improved Pertormance
- -> Cloud services leverage content serieux delivery Network for faster data delivery.
 - · Reduced Time to market
- -> Launch products or services quickly without worsying about infrastancture setup.





Q:-5	Which challenges ahead of Gold Computing!
	Security & Privacy Concerns:
	Sensitive data stored in the cloud can be unlinerable to unauthorized access.
	uninerable to monthorized access.
~	· ·
•	Downtime & Service Reliability
	Organizations sely heavily on cloud vendors for uptime & reliability which can be posed risks during failures.
	noted sicke during fill all which can be
	posed sists overly railyses.
•	Data management & Governance
	130111 HOURT CHELL TO CONCO VOINCE
->	Loss of direct control over data stored in
	Loss of lisect control over data stored in the Cloud can concern organizations
	Cost Management
	Organizations may are incur additional charges of for data eggsess premium features or support.
-	charges of for data egpress premium features
~	or support.
7	
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- > Keeping staff updated with sapidly evolving don't technologies segmises orgoing investment.
 - · Performance Issues
 - > Performance selies heavily on interment bandwidth making it unlinerable to network disouptions.
 - · Multi- Good Management
- -> managing services across multiple cloud providers can complicate governance, security & cost tracking.
- Q: 6 Explain the following cloud computing plat-forms
 - Amazon Web Services (AWS)
 - > It is one of the leading & most widely adopted cloud platforms globally.

>	It provides a broad set of cloud services
	that cates to diverse use cases including
	computing, storage, databases networking.
1	apti astiticial intelligence, machine learning
	and muse.
4	features:
,	
_	Comprehensive service postfolio
	Global Reach
_	Pay - as-you- Go Privaing
_	Pay-as-you-Go Privaing Scalability & Elasticity
(b.)	Google App Engine:
<i>→</i>	Google App Engine is a platform as a service
	Google App Engine is a platform as a service offering from Google doud that allows
	deve lopers to built deploy & scale web applications & services.
	applications & services.
	A STATE OF THE STA
0 0	Flatyses:
-	Fully Managed Platform
_	Automatic Scalability
-)	Support for multiple programming languages.

C.) Microsoft Aznae

- -> It is a comprehensive dond computing platform offered by microsoft.
- including compute. Storage, databases, net-Working ganalytics.
 - · features:
 - Extensive Service Postfolio:

 - Global inforstry cture
 Hybrid Cloud Computine Capability
 Open Source & Hexibility

Hadoop

The is an open-somech of framework designed for distributed stronge of processing of large databases sets across a reserver of computers.

	23 Page No. 12 Date / /
	It is part of the Apache Software Foundation
	It is part of the Apache Software Foundation & is one of the most widely used technologic in big data processing.
>	Hadoups Ability to handle massive amounts of data in a scalable & cost effective manner has made it a corner stone of
	cloud computing & data analytics platforms.
•	features:
	Scalability Fault Tolerance Plexibility
	Open - Source Cost - Effective.