

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII (NEW) EXAMINATION – WINTER 2023****Subject Code:2180712****Date:01-12-2023****Subject Name: Cloud Infrastructure and Services****Time:02:30 PM TO 05:00 PM****Total Marks:70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

		MARKS
Q.1	(a) State different characteristics of cloud computing?	03
	(b) What is the difference between scalability and elasticity?	04
	(c) List and explain Cloud Deployment Models.	07
Q.2	(a) Define Virtualization. Explain its different types.	03
	(b) Differentiate between Dynamo-DB and Amazon S3.	04
	(c) List and explain OpenIDL authentication Steps in cloud security	07
	OR	
	(c) Explain AWS Infrastructure in detail.	07
Q.3	(a) Explain Virtual Private cloud and Redshift?	03
	(b) What is Amazon Glacier and how is it different from S3?	04
	(c) Explain Amazon S3? Explain Amazon S3 API in details.	07
	OR	
Q.3	(a) What is Amazon Elastic MapReduce?	03
	(b) Give the difference between public and private cloud.	04
	(c) Which are the service models of cloud? Which service model is suitable for storing the large amount of data and performing heavy computation tasks of a Scientific research lab? Justify your answer.	07
Q.4	(a) Define Virtual Machine? Discuss Virtual Machine types.	03
	(b) Write a note on AWS Ecosystem.	04
	(c) Explain Load balancing in cloud computing.	07
	OR	
Q.4	(a) What is Amazon ElastiCache? What are Amazon ElastiCache nodes, shards and clusters?	03
	(b) What is Dark Web? Explain in brief	04
	(c) How Amazon Cloudwatch collect, monitor act and analyze different activities? State benefits of Amazon Cloudwatch.	07
Q.5	(a) Describe Elastic Block Storage (EBS).	03
	(b) What is cloud formation?	04
	(c) How AWS handle challenges to achieve data security on AWS cloud?	07
	OR	
Q.5	(a) What is use of CloudTrail in Amazon cloud?	03
	(b) What is Big Data Analytics? What is the use of DataLake in Amazon Cloud?	04
	(c) How Chef and Puppet instances are managed using Amazon OpsWorks. Explain in details.	07
