CLOUD INFRASTRUCTURE AND SERVICES - 2180712 Question Bank

	UNIT – 1 – Introduction to Cloud Technologies			
Sr.No	Questions	Date	Marks	
1	What is Cloud and Cloud Computing? Differentiate	29-11-2019	03	
1	Conventional Computing and Cloud Computing.	27-11-2017	03	
2	Which are the deployment models of cloud? How do private	29-11-2019	07	
_	cloud work? The Gujarat Technological University wants to	29 11 2019	07	
	manage and Analyze Engineering student's record on a cloud.			
	Which Deployment is suitable for this scenario? Why?			
3	State different characteristics of cloud computing?	17-05-2019	03	
4	Explain IAAS, PAAS, SAAS in details.	17-05-2019	07	
5	Mention benefits of cloud computing technology.	17-05-2019	03	
6	Define cloud computing with its features.	29-11-2018	03	
7	List cloud deployment models and describe Public cloud.	29-11-2018	04	
8	Compare different cloud service provider.	29-11-2018	07	
9	Explain IAAS, PAAS, and SAAS with an example?	29-11-2018	07	
10	Explain Pros and Cons of Cloud Computing.	29-11-2018	03	
11	Write a note on Cloud Computing Stack	29-11-2018	04	
12	Which cloud is better? Public or Private. Justify your answer.	29-11-2018	03	
13	Explain Public, Private, Community and Hybrid Cloud.	29-11-2018	07	
14	What is Eucalyptus? Explain in brief	29-11-2018	03	
15	Explain Pros and Cons of Cloud Computing.	07-05-2018	03	
16	Define cloud computing and state it's desirable features	07-05-2018	07	
17	List cloud deployment models and describe community cloud.	07-05-2018	04	
18	Write a note on Cloud Computing Stack	07-05-2018	07	
19	Which cloud is better? Public or Private. Justify your answer	07-05-2018	04	
20	What is Eucalyptus? Explain in brief	07-05-2018	04	
	UNIT – 2 – Virtualization and Cloud Platforms	}		
Sr.No	Questions	Date	Marks	
1	What is a Hypervisor? How Type-1 and Type-2 Hypervisor	29-11-2019	04	
	works?			
2	What is Virtualization? What is the role of virtualization in cloud	29-11-2019	07	
	computing? Which form of virtualization is used in cloud for			
	effective resource utilization?			
3	Differentiate Full and Para Virtualization. Why operating system	29-11-2019	07	
	is needed to be modified in Para Virtualization? How does			
4	Hardware Assisted Virtualization work?	15.05.2010	0.4	
4	Define Virtualization. Mention its different types.	17-05-2019	04	
5	Define Hypervisor with two examples.	17-05-2019	03	
6	Define term Machine Imaging.	17-05-2019	04	
7	What is load balancing? Explain need of loan balancing in cloud	29-11-2018	04	
0	computing.	20.11.2010	07	
8	Explain Virtualization and Hypervisor?	29-11-2018	07	
9	Define load balancing. What is need of loan balancing in cloud	07-05-2018	04	
10	computing?	07.05.2010	0.4	
10	Compare and Contrast Emulation and Para-Virtualization	07-05-2018	04	
11	What are Hypervisors? List it's importance	07-05-2018	03	

12	Compare different cloud service provider.	07-05-2018	07
	UNIT – 3 – Introduction to AWS		
Sr.No	Questions	Date	Marks
1	What are service elasticity and service orchestration in cloud	29-11-2019	03
	computing? What are the issues of Software as a Service (SaaS)?		
2	Which are the service models of cloud? Which service model is	29-11-2019	07
	suitable for storing the large amount of data and performing		
	heavy computation tasks of a Scientific research lab? Justify your		
2	answer.	17.05.2010	02
3	State different AWS services.	17-05-2019	03
4	Explain following terms: Pod, silos and aggregations in Cloud.	17-05-2019	03
5	Write a note on AWS Ecosystem.	17-05-2019	04
6	Write a note on AWS Ecosystem.	29-11-2019	04
7	Explain Pod, silos and aggregations in terms of Cloud	07-05-2018	03
8	Write a note on AWS Ecosystem.	07-05-2018	03
Cr. NT-	UNIT – 4 – Programming, Management Console and Stora		Mari
Sr.No	Questions Write steps to host and access GTU examination system on AWS	Date 29-11-2019	Marks 04
1	public cloud (Mention proper addressing and machine	29-11-2019	04
	configuration).		
2	What is Amazon EC2? How to connect virtual Ubuntu server	29-11-2019	04
	hosted on AWS public cloud?	27-11-2017	04
3	How do you automatically start and stop Amazon EC2 instance?	29-11-2019	03
3	How does AWS handle availability? Which are the Availability	27 11 2017	05
	zones of Amazon cloud?		
4	What is Amazon ElastiCache? What are Amazon ElastiCache	29-11-2019	04
	nodes, shards and clusters?	2) 11 2019	
5	What is Amazon Glacier? How does it work? Differentiate	29-11-2019	07
	Glacier and S3.		
6	What is Amazon S3? How do you access Amazon S3 data using	29-11-2019	04
	API?		
7	Write a note on AWS API Security	17-05-2019	04
8	Define Amazon S3 with its benefits and use cases.	17-05-2019	07
9	What is Amazon Glacier and how is it different from S3?	17-05-2019	04
10	Explain Amazon S3? Explain Amazon S3 API in details.	29-11-2019	07
11	Write a short note on EC2.	29-11-2018	07
12	What is SOAP and REST web services?	29-11-2018	04
13	What is Glacier and how it is beneficial?	29-11-2018	07
14	Explain Amazon S3? Explain Amazon S3 API? What are the	07-05-2018	07
	operations we can execute through API?		
15	What is SOAP and REST web services?	07-05-2018	04
16	Write a note on EC2	07-05-2018	07
	UNIT – 5 – AWS identity Services, Security and Comp		
Sr.No	Questions	Date	Marks
1	What are security vulnerabilities of the public cloud platform?	29-11-2019	04
	How does Amazon cloud handle security issues?	20 11 2010	0.7
2	What is need of Identity and Access Management in public	29-11-2019	07
	cloud? How five engineering students can share their Amazon		
	Account? Write necessary steps to perform this task.		

Define functionalities of Identity and Access Management (IAM) ?	3	List the OpenIDL authentication Steps in cloud security	17-05-2019	04
Topic	4		17-05-2019	03
Compare Relational Country Compare Name Compa		(IAM) ?		
ClAM)?	5	Write a note on AWS Security Mechanism.	17-05-2019	07
7 List the OpenIDL authentication Steps in cloud security 29-11-2018 07 8 What do you mean by Identity Management and Access Management? 9 Write a note on AWS Security 29-11-2018 07 10 List the OpenIDL authentication Steps in cloud security 07-05-2018 03 11 What is Dark Web? Explain in brief 07-05-2018 03 12 What are the functionalities of Identity and Access Management (IAM)? 13 Write a note on AWS Security 07-05-2018 04 (IAM)? 14 What are the challenges to data security in cloud 07-05-2018 03 15 UNIT - 6 - AWS Computing and Marketplace 16 What is Date Marks 1 How do multi tenancy and service elasticity can be achieved in cloud computing? 1 What is virtual computing and virtual machine? What is role of machine imaging in the Amazon cloud platform? 3 What is load balancing? How does Amazon Cloud perform load balancing? How does AWS Elastic load balancer work? 4 Explain Elastic Load Balancer in AWS. 29-11-2019 07 2 What is virtual computing and virtual machine? What is role of machine imaging in the Amazon cloud platform? 3 What is load balancing? How does Amazon Cloud perform load balancing? How does AWS Elastic load balancer work? 4 Explain Elastic Load Balancer in AWS. 29-11-2018 07 5 Explain Elastic Load Balancer in AWS. 29-11-2019 07 2 What is Amazon ElastiCache? What are Amazon ElastiCache 29-11-2019 03 10 What is Amazon Balancer in AWS. 29-11-2019 03 2 What are DynamoDB and SimpleDB? What is the maximum storage capacity of DynamoDB and SimpleDB? 3 Which database services are available on Amazon Cloud? What is use of Amazon RedShift? What are the limitations of RedShift? 4 Define Amazon DynamoDB non-relational database architecture with its benefits. 5 Give overview of Virtual Private Cloud. 17-05-2019 03 6 Compare Relational and Non-Relational Database Service 17-05-2019 04 7 Differentiate between Dynamo-DB and Amazon S3. 29-11-2018 03 8 Explain Virtual Private Cloud and Redshift? 29-11-2018 03 9 Compare and contrast Dynamo-DB and Amazon S3 07-05-2018 04 10 How Virtual Private Cloud and Redshif	6	·	29-11-2018	03
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	8	Differentiate between Dynamo-DB and Amazon S3. Explain Virtual Private cloud and Redshift? Compare and contrast Dynamo-DB and Amazon S3 How Virtual Private Cloud works?	29-11-2018 29-11-2018 07-05-2018 07-05-2018	03 03 04
2 What is use of CloudTrail in Amazon cloud? 29-11-2019 04	8 9 10	Differentiate between Dynamo-DB and Amazon S3. Explain Virtual Private cloud and Redshift? Compare and contrast Dynamo-DB and Amazon S3 How Virtual Private Cloud works? UNIT – 8 – Other AWS Services and Management Se	29-11-2018 29-11-2018 07-05-2018 07-05-2018 rvices	03 03 04 07
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3	What is Big Data Analytics? What is the use of DataLake in	29-11-2019	04
	Amazon Cloud?		
4	Mention working mechanism of AWS CloudTrail with its	17-05-2019	07
	benefits.		
5	How Security analysis can be performed using AWS	17-05-2019	04
	CloudTrail?		
6	How Amazon Cloudwatch collect, monitor act and analyse	17-05-2019	07
	different activities? State benefits of Amazon Cloudwatch		
7	Expalin OpsWorks offerings: AWS Opsworks for Chef	17-05-2019	07
	Automate, AWS OpsWorks for Puppet Enterprise, and AWS		
	OpsWorks Stacks.		
8	How Chef and Puppet instances are managed using Amazon	17-05-2019	04
	OpsWorks		
9	How we can say our data is secure on cloud and what are the	29-11-2018	03
	challenges to achieve it?		
	UNIT – 9 – AWS billing and Dealing with Disaste	er	
Sr.No	Questions	Date	Marks
1	What are the possible disasters in public cloud? How does	29-11-2019	07
	Amazon Cloud handle Disaster recovery?		
2	How AWS Billing mechanism works?	17-05-2019	07
3	Expain term: Disaster recovery. How Disaster recovery in Aws	17-05-2019	07
	cloud is handled?		
4	How AWS deals with Disaster recovery?	29-11-2018	04
5	How AWS deals with Disaster recovery?	07-05-2018	07
6	How does Cloud deals with Disaster Recovery	07-05-2018	03
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