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		Roll. No:
N	IOID/	A INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
		(An Autonomous Institute Affiliated to AKTU, Lucknow)
		B.Tech
		SEM: V - THEORY EXAMINATION (2024 - 2025)
Tim	e: 3 H	Subject: Cloud Virtualization Iours Max. Marks: 100
		tructions:
		that you have received the question paper with the correct course, code, branch etc.
		stion paper comprises of three Sections -A, B, & C. It consists of Multiple Choice
	-	MCQ's) & Subjective type questions.
2. Max	ximun	n marks for each question are indicated on right -hand side of each question.
		your answers with neat sketches wherever necessary.
		uitable data if necessary.
		ly, write the answers in sequential order.
		should be left blank. Any written material after a blank sheet will not be hecked.
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SECT	ION	$\mathbf{A}$ 20
<u>SECT</u>		
	_	all parts:-
1-a.	Te	echnique use to provide system resource access to virtual machines.(CO1,K1) 1
	(a)	VMM
	(b)	VMC
	(c)	VNM
	(d)	All of these
1-b.	T	he is what controls and allocates what portion of hardware resources 1
	ea	ach operating system should get, in order every one of them to get what they
	ne	eed and not to disrupt each other. (CO1, K1)
	(a)	Virtual machine
	(b)	Virtual computing
	(c)	Virtual cloud
	(d)	hypervisior
1-c.		Psec in the Azure platform refer to(CO2,K2) 1
	(a)	Internet Protocol Security protocol suite
	(u) (b)	Internet Standard
	(0) (c)	Commodity servers
		-
	(d)	All of the mentioned

1-d. Applications and services that run on a distributed network using virtualized resources is known as \_\_\_\_\_ (CO2,K1)

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	(a)	Parallel computing		
	(b)	Soft computing		
	(c)	Distributed computing		
	(d)	Cloud computing		
1-e.	II	RC stands for: (CO3,K1)	1	
	(a)	Internal Relay Chat		
	(b)	Immediate Relay Chat		
	(c)	Internet Relay Chat		
	(d)	Infrastructure Relay Chat		
1-f.	For Authentication we use in AWS.(CO3,K1)			
	(a)	ID & Password		
	(b)	Access key		
	(c)	Session Key		
	(d)	All of the above		
1-g.	The following is also referred to edge computing.(CO4,K1)			
	(a)	CloudWave		
	(b)	CloudFront		
	(c)	CloudSpot		
	(d)	All of the mentioned		
1-h.	Amazon cloud-based storage system allows you to store data objects ranging in size from 1 byte up to 5GB.(CO4,K2)			
	(a)	S1		
	(b)	S2		
	(c)	S3		
	(d)	S4		
1-i.	А	mazon Simple Queue Service allows users to transmit any amount of data	1	
	th	nrough the Web without responsibility.(CO5,K1)		
	(a)	Managerial		
	(b)	Requesting		
	(c)	Administrative		
	(d)	Solicited		
1-j.	Cloud Services have a relationship with their customers. (CO5,K1)		1	
	(a)	One to Many		
	(b)	Many to Many		
	(c)	One to one		
	(d)	Many to one		
2. Att	empt	all parts:-		
2.a.	a. Explain Host in virtual machine.(CO1,K2)			

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2.b.	Write any four advantage of SaaS.(CO2,K1)	2		
2.c.	Describe Amazon EFS.(CO3,K2)	2		
2.d.	Define Amazon Glacier.(CO4,K1)	2		
2.e.	Name two security challenges in Cloud Computing.(CO5,K1)	2		
<u>SECTI</u>	SECTION-B			
3. Answer any five of the following:-				
3-a.	Explain benefits of data centre virtualization.(CO1,K2)	6		
3-b.	Differentiate between native Virtualization and Emulation.(CO1,K4)	6		
3-c.	Explain in details about Demand Driven Resource Provisioning.(CO2,K2)	6		
3-d.	Discuss about the basic requirements for managing the resources of data centre.(CO2,K2)	6		
3.e.	Explain benefits of moving from EC2-Classic to Amazon VPC.(CO3,K3)	6		
3.f.	Explain the storage classes available in Amazon S3 in detail.(CO4,K3)	6		
3.g.	Explain Infrastructure (server-side) layer also discuss its advantages and disadvantages. (CO5,K3)	6		
<u>SECTION-C</u> 5				
4. Ansv	ver any <u>one</u> of the following:-			
4-a.	Explain Clustering. What are virtual Cluster explain in detail.(CO1,K2)	10		
4-b.	Explain Different Implementation Level Of Virtualization.(CO1,K3)	10		
5. Ansv	ver any <u>one</u> of the following:-			
5-a.	Describe briefly the supported environments for Google App Engine.(CO2,K2)	10		
5-b.	Describe four major advantages of virtualized resources in cloud computing applications.(CO2,K2)	10		
6. Ansv	ver any <u>one</u> of the following:-			
б-а.	Briefly explain four actions to control a virtual Server in cloud virtual environment. (CO3,K2)	10		
6-b.	Explain the concept of subnetting and allocating IP address in VPC. (CO3,K3)	10		
7. Ansv	ver any <u>one</u> of the following:-			
7-a.	Differentiate between DynamoDB and RDS in detail.(CO4,K4)	10		
7-b.	Explain about Amazon S3 with their key features in detail.(CO4,K3)	10		
8. Ansv	ver any <u>one</u> of the following:-			
8-a.	Explain the process of Recovery from server failure by CloudWatch.(CO5,K3)	10		
8-b.	Explain different issues and Cloud Security Challenges.(CO5,K2)	10		

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