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		(An Autonomous Institute Affiliate		Luckno	ow)				
			integrated)	2025)					
		SEM: V - THEORY EXAMINA Subject: Cloud Virtu	,	- 2025))				
Time	e: 3 H	Hours	ianzanon			Max	x. M	arks	s: 100
		structions:				1,141	1. 1.1.	WIII	. 100
IMP:	Verify	y that you have received the question paper	with the corr	ect cou	rse,	code,	brai	nch	etc.
1. This	s Que	estion paper comprises of three Sections -A,	B, & C. It co	nsists c	of Mı	ıltiple	? Cho	oice	?
		(MCQ's) & Subjective type questions.							
		m marks for each question are indicated on	-	ide of e	each	quest	ion.		
		e your answers with neat sketches wherever	necessary.						
		suitable data if necessary. bly, write the answers in sequential order.							
_		t should be left blank. Any written material c	after a blank s	sheet w	ill ne	ot he			
		checked.	grer et e terrire s	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,				
SECTION-A						<			20
1. Attempt all parts:-									
1-a.	T	Technique use to provide system resource ac	cess to virtua	ıl mach	ines.	(CO1	, K 1))	1
	(a)	VMM							
	(b)	VMC							
	(c)	VNM) '						
	(d)	All of these							
1-b.	T	The is what controls and allocate	s what portio	n of ha	rdwa	re re	sour	ces	1
	ea	each operating system should get, in order ev	ery one of th	em to g	get w	hat tl	ney		
	ne	need and not to disrupt each other. (CO1, K1)						
	(a)	Virtual machine							
	(b)	Virtual computing							
	(c)	Virtual cloud							
	(d)	hypervisior							
1-c.	IF	Psec in the Azure platform refer to(CO2,	K2)						1
	(a)	Internet Protocol Security protocol suite							
	(b)	Internet Standard							
	(c)	Commodity servers							
	(d)	All of the mentioned							
1-d.	` ′	Applications and services that run on a distri	huted networ	k usino	virt	กลให้ร	h.		1
1-u.		esources is known as (CO2,K		k usilig	, v11 t	ualiZC	A.		1

	(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.	F	or Authentication we use in AWS.(CO3,K1)	1		
	(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				
	ra	anging in size from 1 byte up to 5GB.(CO4,K2)			
	(a)	S1			
	(b)	S2			
	(c)	S3			
	(d)	S4			
1-i.		mazon Simple Queue Service allows users to transmit any amount of data	1		
	th	rough the Web without responsibility.(CO5,K1)			
	(a)	Managerial			
	(b)	Requesting			
	(c)	Administrative			
	(d)	Solicited			
1-j.	C	loud 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.	Е	xplain Host in virtual machine.(CO1,K2)	2		

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
SECTI	ON-B	30
3. Answ	ver any <u>five</u> 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
SECTI	<u>ON-C</u>	50
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 one of the following:-	
6-a.	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-h	Explain different issues and Cloud Security Challenges (CO5 K2)	10