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N	OID	A INSTITUTE OF ENGINEERING AN	O TECHNOLOGY	, GREA	TER NO	)IDA	<u></u>
		(An Autonomous Institute Affilia					
			(Integrated)				
		SEM: V - THEORY EXAMIN	•	25)			
TP:	. 2 11	Subject: Cloud Vir	tualization		M N	Л1_	100
	-	Hours structions:			Max. N	/lark	s: 100
		y that you have received the question pape	er with the correct i	course	code br	anch	etc
		estion paper comprises of three Sections -1					
	_	(MCQ's) & Subjective type questions.	, ,	J	1		
_		m marks for each question are indicated o	n right -hand side	of each	question		
		e your answers with neat sketches whereve	er necessary.				
		suitable data if necessary.					
•		ly, write the answers in sequential order.	1 C 11 1 1	. •11	. 1		
		should be left blank. Any written materia checked.	l after a blank shee	t will n	ot be		
evaiua	ieu/ci	тескей.					
SECT	ION-	<u>-A</u>			X		20
1. Atte	mpt a	all parts:-					
1-a.		n a scheme, the VM is inst	alled as a Type 1 F	Iypervi	sor direc	tly	1
	Ol	onto the hardware.(CO1,K1)					
	(a)	paravirtualization					
	(b)	full virtualization					
	(c)	emulation					
	(d)	None of these					
1-b.	1-b. HAL stands for (CO1,K1)						1
	(a)	Hardware abstraction Layer					
	(b)	High abstraction Layer					
	(c)	Hardware abstraction level					
	(d)	High abstraction Level					
1-c.	_	as a utility is a dream that dates	from the beginning	g of the	computi	ng	1
	in	ndustry itself.(CO2,K1)					
	(a)	Model					
	(b)	Computing					
	(c)	Software					
	(d)	All of the mentioned					
1-d.		Cloud computing is a system and ature.(CO2,K1)	it is necessarily un	idirecti	onal in		1

	(a)	stateless				
	(b)	stateful				
	(c)	reliable				
	(d)	all of the mentioned				
1-e.		virtualization occurs at application level, OS level and hardware level, then such ervice in cloud is (CO3,K1)	1			
	(a)	IAAS				
	(b)	SAAS				
	(c)	PAAS				
	(d)	CAAS				
1-f.	A	Amazon Web Services& newest encryption tool is. (CO3,K1)				
	(a)	Amazon Elastic Block Storage Encryption				
	(b)	AWS Identity and Access Management				
	(c)	Amazon S3				
	(d)	Py Charm				
1-g.	A	mazon S3 is a(CO4,K1)	1			
	(a)	Relational database				
	(b)	Key-Based object store				
	(c)	Domain System				
	(d)	Content Delivery Network				
1-h.	T	The following is not true about Amazon Glacier.(CO4,K1)				
	(a)	Optimized for data that is infrequently accessed				
	(b)	Secure and durable storage for data archiving and backup				
	(c)	Services enables rapid disaster recovery				
	(d)	Optimized for data for which retrieval times of several hours are suitable				
1-i.	Pe	oint the cloud function is used to support Elastic Load Balancing.(CO5,K1)	1			
	(a)	CloudWatch				
	(b)	EBS				
	(c)	S3				
	(d)	AWS import/Export				
1-j.		o prevent messages from being lost or becoming unavailable, all messages are ored across multiple servers and data centers.(CO5,K1)	1			
	(a)	Publicly				
	(b)	Superfluously				
	(c)	Redundantly				
	(d)	Privately				
2. Att	empt a	all parts:-				
2.a.	-	efine memory virtualization.(CO1,K1)	2			

2.b.	Briefly explain about Microsoft Windows Azure.(CO2,K2)	2
2.c.	Describe AWS Elastic Beanstalk. (CO3,K3)	2
2.d.	Write short notes on Amazon S3 Event notifications.(CO4,K2)	2
2.e.	Explain Simple Queue Service (SQS). (CO5,K2)	2
<b>SECTI</b>	ON-B	30
3. Ansv	ver any <u>five</u> of the following:-	
3-a.	Differentiate between native Virtualization and Emulation. (CO1,K3)	6
3-b.	Briefly define Instruction Set Architecture Level in virtualization.(CO1,K2)	6
3-c.	Explain about Virtual Machine Manager with a suitable example and proper diagram.(CO2,K3)	6
3-d.	Briefly explain Distributed Defense against DDoS Flooding Attacks.(CO2,K2)	6
3.e.	Explain AWS Cloud Digital Interface Software Development Kit.(CO3,K3)	6
3.f.	Explain the storage classes available in Amazon S3 in detail. (CO4,K2)	6
3.g.	Explain Elastic Load Balancing (ELB) with suitable example.(CO5,K3)	6
<b>SECTI</b>	ON-C	50
4. Ansv	ver any one of the following:-	
4-a.	Explain full virtualization and para virtualization. (CO1,K2)	10
4-b.	Explain Role of Hypervisor in Virtualization Process with suitable example. (CO1,K2)	10
5. Ansv	ver any <u>one</u> of the following:-	
5-a.	Is virtualization support is needed to achieve fast cloning of VMs? Explain how VM cloning can enable fast recovery. (CO2,K3)	10
5-b.	Explain Infrastructure as a Service (IaaS) in detail with a suitable example. (CO2,K2)	10
6. Ansv	ver any one of the following:-	
6-a.	Describe features of IAM in creating role based ACL with suitable diagram. (CO3,K3)	10
6-b.	Explain various types of Amazon EC2 instances and their essential features.(CO3,K2)	10
7. Ansv	ver any <u>one</u> of the following:-	
7-a.	Explain various database types (Unstructured, Semistructured, and Structured data) in detail. (CO4,K3)	10
7-b.	Write short notes on the storing data in (a) EFS (b) EBS (c) S3. (CO4,K2)	10
8. Ansv	ver any <u>one</u> of the following:-	
8-a.	Describe function of launch configuration in Amazon EC2 Auto Scaling. (CO5,K2)	10
8-b.	Explain the Cloud Application Programming Interface (Cloud API) with a suitable example (CO5 K3)	10