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Printe	d Page:-	Subject Code:- ACSAI0520
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N		G AND TECHNOLOGY, GREATER NOIDA
	•	e Affiliated to AKTU, Lucknow) B.Tech
		AMINATION (20 20)
		oud Virtualization
Tim	e: 3 Hours	Max. Marks: 100
	al Instructions:	
	-	on paper with the correct course, code, branch etc.
		tions -A, B, & C. It consists of Multiple Choice
_	ions (MCQ's) & Subjective type question are indi-	ns. cated on right -hand side of each question.
	strate your answers with neat sketches v	• • •
	ume suitable data if necessary.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	ferably, write the answers in sequential	order.
	sheet should be left blank. Any written n	naterial after a blank sheet will not be
evalud	ated/checked.	
SECT	CION-A	20
1. Atte	empt all parts:-	
1-a.	Technique use to provide system res	source access to virtual machines.(CO1,K1)
	(a) VMM	
	(b) VMC	
	(c) VNM	
	(d) All of these	
1-b.		d allocates what portion of hardware resources 1
1 0.		n order every one of them to get what they
	need and not to disrupt each other. (
	(a) Virtual machine	
	(b) Virtual computing	
	(c) Virtual cloud	
	(d) hypervisior	
1-c.	IPsec in the Azure platform refer to	(CO2,K2)
	(a) Internet Protocol Security protoc	
	(b) Internet Standard	
	(c) Commodity servers	
	(d) All of the mentioned	
1-d.		n a distributed network using virtualized 1
1-u.	resources is known as	_

	(a)	Parallel computing		
	(b)	Soft computing		
	(c)	Distributed computing		
	(d)	Cloud computing		
1-e.	IRC stands for: (CO3,K1)			
	(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.		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