Printe	ed Pa	_	Subject (Roll. No:		e:-	ACS	SAI	061	1/A(	CSAI	H06	611
NO	IDA	INSTITUTE OF ENGINEERING A	ND TEC	HN	OL	OG	Y, G	RF	CATI	ER N	OII	DA
		(An Autonomous Institute Aff		AK	JT	J <b>, L</b> u	ckn	ow	)			
		B.Te	_	NT (0	Λ		20	`				
		SEM: VI - THEORY EXAM Subject: Cloud Stor					20	)				
Tim	e: 3	Hours	age Man	lage	ше	III			May	x. M	arks	s: 100
		nstructions:							11142	<b>X</b> • IVI	<b>41 1</b> 1,	. 100
IMP:	Veri	fy that you have received the question p	aper with	the	coi	rect	сои	rse,	code	e, bro	anch	etc.
1. This	s Qu	estion paper comprises of <b>three Section</b>	s -A, B, &	& C.	It c	consi	sts c	of M	lultip	ole C	hoic	e
		(MCQ's) & Subjective type questions.		_				_				
		m marks for each question are indicated	_			side (	of e	ach	ques	tion.		
		e your answers with neat sketches wher suitable data if necessary.	ever nece	ssar	у.							
		sundore add if necessary. bly, write the answers in sequential orde	or									
-		t should be left blank. Any written mater		a blo	ınk	shee	t wi	ll n	ot be			
		checked.	J									
<b>SECT</b>	<u>IOI</u>	<u>V-A</u>										20
1. Atte	empt	all parts:-										
1-a.		Select one of the following software that	t can be u	sed	to i	mple	mer	nt lo	ad b	alano	cing.	. 1
		(CO1, K2)									0	
	(a)	Apache mod_balancer	77	1								
	(b)	Apache mod_proxy_balancer	$(\mathcal{N})$									
	(c)	F6's BigIP										
	(d)											
1-b.	` ′	An example of hybrid cloud is. (CO1, K	(1)									1
1 0,	(a)	( Ubuntu Enterprise Cloud – UEC										-
	(b)	( VMware Cloud Infrastructure Suite	2									
	(c)	( Eucalyptus										
	(d)	( VMware vCloud										
1 .	` ′			:4	: .1	. :	1	.14.		(0)	$\sim$ 2	1
1-c.		Choose one option which is NOT a pote K1)	muai secu	irity	HSF	C III C	iouc	ı su	orage	). (C	<i>J</i> 2,	1
	(a)	Insider attacks										
	(b)	Third-party access										
	(c)	Server downtime										
	(d)	Lack of integration with legacy syste	ems									
1-d.		Select one of the following which is NO assets and technology. (CO2, K1)		oract	ice	for c	lispo	osin	g of	digit	al	1

	(a)	Securely erasing all data	
	(b)	Physically destroying the hardware	
	(c)	Donating the hardware to a charity	
	(d)	Following a formal disposal policy	
1-e.	B _	y default, each Compute Engine virtual machine (VM) instance has/have boot persistent disk. (CO3, K1)	1
	(a)	Multi	
	(b)	Single	
	(c)	Dual	
	(d)	None of the mentioned	
1-f.	S	torage Gateway solves: (CO3, K1)	1
	(a)	On-premises challenges	
	(b)	Cloud storage challenges	
	(c)	Hybrid Cloud Storage Challenges	
	(d)	None of the mentioned	
1-g.		nowball devices are designed to be requested and used within AWS egion (CO4, K1).	1
	(a)	Multi	
	(b)	Global	
	(c)	Single	
	(d)	All of the mentioned	
1-h.	A	Assessment of Data Migration viability means (CO4, K2).	1
	(a)	Assessment of Timelines	
	(b)	Assessment of Tools/Technology	
	(c)	Assessment of Legacy Sources/Risks/Mitigation	
	(d)	All of the mentioned	
1-i.		C refers to a model that enables access through the network, according to emand, to a shared pool of (CO5, K2)	1
	(a)	Softwares	
	(b)	computing resources	
	(c)	Hardware	
	(d)	None of these	
1-j.		he best cloud storage management services make it simple and easy to manage our data accessibility across (CO5, K2)	1
	(a)	multiple platforms	
	(b)	single platforms	
	(c)	synchronous platforms	
	(b)	asynchronous platforms	

2. Atter	npt all parts:-	
2.a.	Explain Network virtualization. (CO1, K2)	2
2.b.	Discuss Virtual servers. (CO2, K2)	2
2.c.	Define Persistent disk. (CO3, K1)	2
2.d.	Define ETL (CO4, K1).	2
2.e.	Explain AWS Marketplace with a suitable example. (CO5, K2)	2
<b>SECTI</b>	ON-B	30
3. Ansv	ver any <u>five</u> of the following:-	
3-a.	Define Routers with their advantage and disadvantage. (CO1, K2)	6
3-b.	Discuss any five points related to importance of virtualization in cloud storage. (CO1, K2)	6
3-c.	Define systematic approach to data security in cloud storage with suitable example. (CO2, K2)	6
3-d.	Discuss all the data management strategy in cloud storage with suitable example. (CO2, K2)	6
3.e.	Define following: (i) S3 versioning (ii) S3 Object lock (iii) S3 Replication. (CO3, K1)	6
3.f.	Write Short notes on: (i) Lift and Shift (ii) Move and Improve (CO4, K2).	6
3.g.	Justify the statement "Scalability is central to meeting the changing needs of dynamic e-commerce businesses." (CO5, K3)	6
<b>SECTI</b>	<u>ON-C</u>	50
4. Ansv	ver any one of the following:-	
4-a.	Define Cloud storage with suitable example and also discuss its advantages and disadvantages. (CO1, K2)	10
4-b.	Rohit develops an access control model for data stored in multiple virtualized environments. Develop his model with technical justification. (CO1, K6)	10
5. Ansv	ver any one of the following:-	
5-a.	Define Data infrastructure for cloud storage with proper flow diagram and suitable example. (CO2, K2)	10
5-b.	Muskan handles sensitive data and wants to dispose of legacy storage without leaving digital footprints. Outline a secure disposal plan. (CO2, K3)	10
6. Ansv	ver any one of the following:-	
6-a.	Review the Persistent Disk of GCP and also discuss its types. (CO3, K2)	10
6-b.	Explain various features of Amazon EBS. (CO3, K2)	10
7. Ansv	ver any <u>one</u> of the following:-	
7-a.	Discuss challenges in Data Synchronisation and also brief the role of data integration in data synchronisation (CO4, K2).	10
7-b.	Write a note on migration planning steps and explain how it supports successful	10

cloud adoption (CO4, K3).

- 8. Answer any one of the following:-
- 8-a. Describe the challenges and outcomes of Siemens Mobility using AWS cloud services. (CO5, K2)
- 8-b. Akash is studying a company that failed to maintain its infrastructure due to bare metal limitations. Prepare an evaluation of what went wrong and propose a recovery plan. (CO5, K5)

REG. JAM JUNIA.