Print	-	Subject Code:- ACSAI0514 Roll. No:	
N(OIDA INSTITUTE OF ENGINEERING AND TI	ECHNOLOGY, GREATER NOIDA	
	(An Autonomous Institute Affiliated	to AKTU, Lucknow)	
	B.Tech		
	SEM: V - THEORY EXAMINAT		
T:	Subject: Introduction to clou	2	
	me: 3 Hours heral Instructions:	Max. Marks: 100	
	P: Verify that you have received the question paper w	ith the correct course, code, branch etc.	
	his Question paper comprises of three Sections -A, B		
	stions (MCQ's) & Subjective type questions.		
	laximum marks for each question are indicated on rig	•	
	lustrate your answers with neat sketches wherever ne	ecessary.	
	ssume suitable data if necessary.		
	referably, write the answers in sequential order. To sheet should be left blank. Any written material after	or a blank shoot will not be	
	o sheet should be left blank. Any written material afte uated/checked.	er a blank sneel will not be	
Craite	uarea cheekea.		
SEC.	CTION-A	20	
1. Att	ttempt all parts:-	N.	
1-a.		1	
	(a) Internet consumes roughly 1 percent of the	world's total power	
	(b) The cost advantages of cloud computing ha		
	create productivity applications		
	(c) A client can provision computer resources v	without the need for interaction with	
	cloud service provider personnel		
	(d) None of the mentioned		
1-b.	is updated when attributes of a cloud	l service change.(CO1)	
	(a) Incident history log file		
	(b) Problem resolution document		
	(c) Chargeback report		
	(d) Configuration management database		
1-c.	The technology used to distribute service reque	ests to resources is referred to as 1	
1 0.		is to resources is reterred to dis	
	(a) load performing		
	(b) load scheduling		
	(c) load balancing		
	(d) all of the mentioned		
1-d.	Point out the wrong statement.(CO2)	1	

	(a)	Load balancing virtualizes systems and resources by mapping a logical address to sical address	a
	(b)	Multiple instances of various Google applications are running on different hosts	
	(c)	Google uses hardware virtualization	
	(d)	All of the mentioned	
1-e.	` '	IST specifiescloud model.(CO3)	1
	(a)	IaaS	-
	(b)	PaaS	
	(c)	SaaS	
	(d)	All of these	
1-f.	A	bout which the statement is true: A cloud service is an application development atform.(CO3)	1
	(a)	IaaS	
	(b)	PaaS	
	(c)	SaaS	
	(d)	All of these	
1-g.	Ir	cloud computing cloud storage is purchased from a(CO4)	1
	(a)	First party	
	(b)	Second party	
	(c)	Third party	
	(d)	Fourth party	
1-h.	•••	is not a disadvantage of block storage.(CO4)	1
	(a)	Fast	
	(b)	Reliable	
	(c)	High cost	
	(d)	Easy to modify	
1-i.		hoose one of the aforementioned services that must be discussed in service level greements.(CO5)	1
	(a)	Logging	
	(b)	Auditing	
	(c)	Regulatory compliance	
	(d)	All of the mentioned	
1-j.		hoose one of the following cloud computing areas, each of which has its own nallenges.(CO5)	1
	(a)	Auditing	
	(b)	Data integrity	
	(c)	e-Discovery for legal compliance	
	(d)	All of the mentioned	

2. Atten	npt all parts:-	
2.a.	Name the services of cloud computing with a suitable example.(CO1)	2
2.b.	List various resource provisioning methods. (CO2)	2
2.c.	Point out the benefits of PaaS.(CO3)	2
2.d.	Name any 5 database engines which RDS support.(CO4)	2
2.e.	Define cloud security with suitable example.(CO5)	2
SECTIO	<u>ON-B</u>	30
3. Answ	ver any <u>five</u> of the following:-	
3-a.	Explain the different data types used in cloud computing also discuss its advantages and disadvantages.(CO1)	6
3-b.	List the various challenges of cloud provisioning with suitable case study.(CO1)	6
3-c.	Explain virtual machine with real time example and discuss its advantages and disadvantages.(CO2)	6
3-d.	Classify the types of load balancing techniques with suitable real time example.(CO2)	6
3.e.	Differentiate the cloud software environment layer from the cloud software infrastructure layer and explain the advantages and disadvantages of both.(CO3)	6
3.f.	Discuss when it is beneficial to use elastic block storage in a cloud environment. Explain it with a suitable example.(CO4)	ϵ
3.g.	Discuss about Cloud Storage Architecture and it need with suitable example.(CO5)	6
SECTION	<u>ON-C</u>	50
4. Answ	ver any <u>one</u> of the following:-	
4-a.	Define cloud computing with a suitable real time example and discuss its service model. (CO1)	10
4-b.	Explain the basic components of cloud computing and define distributed computing with suitable examples.(CO1)	10
5. Answ	ver any one of the following:-	
5-a.	Describe the idea of virtualization using an appropriate example with neat and clean diagram.(CO2)	10
5-b.	Explain the types of hypervisors and their relevance in detail.(CO2)	10
6. Answ	ver any <u>one</u> of the following:-	
6-a.	Discuss financial, performance and security specific challenges in cloud architecture.(CO3)	10
6-b.	Define chargeback model and discuss how the consumers need to pay for the consumed services with suitable a example.(CO3)	10
7. Answ	ver any <u>one</u> of the following:-	
7-a.	Discuss some key features and functionalities of Simple Storage Service (S3) in cloud computing, and how do they contribute to its widespread adoption.(CO4)	10

7-b.	Explain the roles of cloud broker and cloud auditor with suitable example also draw neat and clean diagram. (CO4)	10
8. Ansv	ver any one of the following:-	
8-a.	Explain the steps to adopt SaaS security with pictorial representation.(CO5)	10
8-b.	Discuss SaaS security and practices that an organisation adopts for SaaS security.(CO5)	10

