Printed Pag		Subject Code:- ACSAI0514 ACSAIH0514 Roll. No:
NOID	OA INSTITUTE OF ENGINEERING A	ND TECHNOLOGY, GREATER NOIDA
	(An Autonomous Institute Affi	
	B.Tec	
	SEM: V - THEORY EXAMI	
Time: 3 H	Subject: Introduction to	Max. Marks: 100
General Ins		Wax. Warks. 100
IMP: Verif	y that you have received the question pa	per with the correct course, code, branch etc.
_		-A, B, & C. It consists of Multiple Choice
	(MCQ's) & Subjective type questions.	
	m marks for each question are indicated	· -
	e your answers with neat sketches where suitable data if necessary.	ver necessary.
	bly, write the answers in sequential orde	r.
v	t should be left blank. Any written mater	
evaluated/c	checked.	
SECTION	<u>I-A</u>	20
1. Attempt	all parts:-	
1-a	self service is a major chara	cteristic of cloud computing.(CO1,K1)
(a)	On demand	
(b)	Off demand	
(c)	In Demand	
(d)	None of the above	
	The is something that you can obtavendor.(CO1,K1)	ain under contract from your 1
(a)	PoS	
(b)	QoS	
(c)	SoS	
(d)	All of the mentioned	
` ,	n which scheme, the VM is installed as	a Type 1 Hypervisor directly onto the 1
	nardware. (CO2,K1)	Type I Trypervisor directly onto the
(a)	para virtualization	
(b)	full virtualization	
(c)	emulation	
(d)	none of the mentioned	
()	dentify the incorrect statement.(CO2,K1)
	•	ost operating system provide a virtual machine

interface for the guest operating system and that the guest access hardware through that host VM Guest operating systems in full virtualization systems are generally faster than other (b) virtualization schemes A process virtual machine instantiates when a command begins a process (c) (d) All of the mentioned Cloud infrastructure deployed by an organization on its data centres within its 1 1-e. premises is known as (CO3,K1) Externally hosted private cloud (a) On-premise private cloud (b) (c) Public cloud Community cloud (d) 1-f. Select one of the following statement which is not true about SaaS.(CO3,K1) 1 Consumers can use the provider's applications running on a cloud infrastructure (a) Applications are accessible from various client devices through a web browser or a (b) client program (c) Consumers control only the deployed applications (d) A consumer does not manage or control any aspect of the cloud infrastructure (CO4,K1) An operational support system is required to deliver _ 1 1-g. cloud services (a) client services (b) server processes (c) (d) client processes 1-h. RDS (Relational Database Service) benefits includes.(CO4,K1) 1 easy to administer (a) (b) inexpensive (c) available and durable (d) All of the mentioned VM security is based on.....(CO5,K1) 1-i. 1 Trusted computing base (a) Platform security (b) Software security (c) (d) Cloud computing services 1-j. OpenStack is.....(CO5,K1) 1 Infrastructure (a) (b) **Platform** (c) Software None of the mentioned (d)

2. Atter	npt all parts:-	
2.a.	Define Elasticity with suitable example.(CO1,K1)	2
2.b.	Explain Desktop Virtualization with suitable example.(CO2,K2)	2
2.c.	Name 5 public cloud service provider.(CO3,K1)	2
2.d.	Define Storage services with suitable example.(CO4,K1)	2
2.e.	List some challenges in cloud security.(CO5,K1)	2
SECTI	ON-B	30
3. Ansv	ver any five of the following:-	
3-a.	Discuss principle of distributed computing with suitable examples.(CO1,K2)	6
3-b.	Explain on-demand functionality also discuss the method of providing it in cloud computing.(CO1,K2)	6
3-c.	Distinguish type1 and type2 hypervisor.(CO2,K4)	6
3-d.	Explain virtual machine with real time example and discuss its advantages and disadvantages.(CO2,K2)	6
3.e.	Contrast the benefits of NIST reference architecture against cloud layered architecture.(CO3,K2)	6
3.f.	Describe how can S3 (Simple Storage Service) be integrated with other AWS services.(CO4,K2)	6
3.g.	Discuss relation between Google app engine and Google compute engine. (CO5,K2)	6
SECTI	ON-C	50
4. Ansv	ver any <u>one</u> of the following:-	
4-a.	Analyze and Discuss the characteristics and categories of Elastic compute cloud (EC2) instances also list few other services provided by AWS.(CO1,K4)	10
4-b.	Differentiate among distributed computing, clustered computing and grid computing with suitable example.(CO1,K4)	10
5. Ansv	ver any one of the following:-	
5-a.	Describe the idea of virtualization using an appropriate example with neat and clean diagram.(CO2,K4)	10
5-b.	Explain how a cloud environment is beneficial to customers with suitable examples and also associate its effects on consumers.(CO2,K4)	10
6. Ansv	ver any one of the following:-	
6-a.	Specify the Cloud Computing Reference Architecture also discuss the benefits of CCRA with suitable example.(CO3,K4)	10
6-b.	Discuss Layered Cloud Architecture Design with suitable example also explain the need of clous architecture in cloud computing.(CO3,K4)	10
7. Ansv	ver any one of the following:-	
7-a.	Contrast the architectural challenges in cloud computing with suitable real life example.(CO4.K4)	10

7-b.	Explain AWS Elastic Block Storage with it's concepts in detail also write	10
	differences between S3 and Elastic Block Storage with suitable example.	
	(CO4,K4)	

8. Answer any <u>one</u> of the following:-

- 8-a. Explain Inter cloud resource management with suitable example also discuss IAM, 10 Security standards and VPC with there concepts in detail. (CO5,K4)
- 8-b. Elaborate on the parameters on which resource provisioning methods depend, with 10 suitable examples.(CO5,K3)

