Printed Pa	ge:- Subject Code:- ACSAI0514 Roll. No:
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	NOTE A DISCRIPTION OF FUGUREEPING AND THE CHINAL ORDER THE DAY OF A
	NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA
	(An Autonomous Institute Affiliated to AKTIL Lucknow) B.Tech
	SEM: V - THEORY EXAMINATION (2022 - 2023)
	Subject: Introduction to Cloud Computing
Time: 3	Hours Max. Marks: 100
General In	astructions:
IMP: Veri	fy that you have received the question paper with the correct course, code, branch etc.
1. This Qu	uestion paper comprises of three Sections -A, B, & C. It consists of Multiple Choice Questions
(MCQ's)	& Subjective type questions.
2. Maximu	um marks for each question are indicated on right -hand side of each question.
3. Illustrat	e your answers with neat sketches wherever necessary.
4. Assume	e suitable data if necessary.
5. Preferal	oly, write the answers in sequential order.
6. No shee	et should be left blank. Any written material after a blank sheet will not be evaluated/checked.
	SECTION A 20
1. Attempt	t all parts:-
1-a.	is a pay-as-you-go model matches resources to need on an ongoing basis. (CO1) 1
	(a) Utility
	(b) Elasticity
	(c) Low barrier to entry
	(d) All of the mentioned
1-b.	Which cloud computing characteristic enables consumers to get computing resources 1 without any human intervention? (CO1)
	(a) Broad network access
	(b) Measured service
	(c) Rapid elasticity
	(d) On-demand self service
1-c.	Select right type of hypervisor 'bare metal'. (CO2)
	(a) Type 1
	(b) Type 2

	(d) All of the mentioned
1-d.	Point out the correct statement. (CO2)
	(a) Service Oriented Architecture (SOA) describes a standard method for requesting
	services from distributed components and managing the results
	(b) SOA provides the translation and management layer in an architecture that removes the
	barrier for a client obtaining desired services
	(c) With SOA, clients and components can be written in different languages and can use multiple messaging protocols
	(d) All of the mentioned
1-e.	Which of the following backup create a cloned copy of your current data or drive (CO3)
	(a) Continuous Data Protection
	(b) Open file backup
	(c) Reverse Delta backup
	(d) None of the mentioned
1-f.	Which of the following is a SaaS characteristic? (CO3)
	(a) The typical license is subscription-based or usage-based and is billed on a recurring basis
	(b) The software is available over the Internet globally through a browser on demand
	(c) The software and the service are monitored and maintained by the vendor
	(d) All of the mentioned
1-g.	IAM is (CO5)
	(a) Role based access control
	(b) traditional communication systems
	(c) connection protocol
	(d) Interface
1-h.	Which of the option is the basic components of security (CO4)
	(a) Confidentiality
	(b) Utility
	(c) Reliability
	(d) Efficiency
1-i.	Point out the wrong statement. (CO5)

(c) Type 3

		1		
	application, or application stack			
	(b) AWS is a deployment enabler			
	(c) Google Apps lets you create a scalable cloud-based application			
	(d) None of the mentioned			
1-j.	OpenStack is a (CO4)	1		
	(a) Infrastructure			
	(b) Platform			
	(c) Software			
	(d) None of the mentioned			
2. Attemp	et all parts:-			
2.a.	List the name of five major companies that provides cloud computing services. (CO1)	2		
2.b.	Define virtual machine monitor. (CO2)	2		
2.c.	Name the actors in NIST reference architecture. (CO3)	2		
2.d.	State Cloud Pairing. (CO4)	2		
2.e.	Write a short note on VPC Endpoint. (CO5)	2		
	SECTION B	30		
3. Answe	r any <u>five</u> of the following:-			
3-a.	Differentiate between the elasticity and scalability. (CO1)	6		
3-b.	Differentiate between Cloud Computing and Grid Computing. (CO1)	6		
3-c.	Define SOA. (CO2)	6		
3-d.	Discuss virtualization and its needs. (CO2)	6		
3.e.	Differentiate between public and private cloud. (CO3)	6		
3.f.	Explain how CCRA evolved. (CO4)	6		
3.g.	Discuss the term 'VPC' in detail. (CO5)	6		
	SECTION C	50		
4. Answe	r any one of the following:-			
4-a.	List out essential characteristics of cloud computing. (CO1)	10		
4-b.	Explain scalability in cloud. What do you mean by vertical and horizontal scaling? (CO1)	10		
5. Answer any <u>one</u> of the following:-				
5-a.	Describe the layers of virtualization in detail. (CO2)	10		

(a) An Amazon Machine Image can be provisioned with an operating system, an enterprise

5-b.	Explain how a cloud enterprise effectively manages the workload of various resources.	10			
	Describe the various techniques involved in it. (CO2)				
6. Answer any <u>one</u> of the following:-					
6-a.	Write differences between PaaS and SaaS. (CO3)	10			
6-b.	Specify the meaning of Vendor Lock-in. Discuss the methods to avoid Vendor Lock-in. (CO3)	10			
7. Answer any <u>one</u> of the following:-					
7-a.	Discuss the security threats do any organization need to prepare for while migrating to the Cloud. (CO4)	10			
7-b.	Write Short notes on (CO4) (i) RDS (ii) DynamoDB	10			
8. Answer any <u>one</u> of the following:-					
8-a.	Write short note on (CO5) (i) Global exchange of cloud resources (ii) DNS	10			
8-b.	Review a case study on switching from standard environment to flexible environment of GAE. (CO5)	10			