Printed Page:-	Subject Code:- AMBABI0313	
	Roll. No:	
NOIDA INSTITUTE OF ENGINEERING	AND TECHNOLOGY, GREATER NOIDA	
(An Autonomous Institute Affiliated to AKTU, Lucknow)		
MBA		
SEM: III - CARRY OVER THEORY EXAMINATION - APRIL 2023		
Subject: Cloud and Big Data		
Time: 3 Hours	Max. Marks: 100	
General Instructions:		
IMP: Verify that you have received the question po		
	tions -A, B, & C. It consists of Multiple Choice	
Questions (MCQ's) & Subjective type questions. 2. Maximum marks for each question are indicate	ed on right, hand side of each question	
3. Illustrate your answers with neat sketches wher		
4. Assume suitable data if necessary.	ever necessary.	
5. Preferably, write the answers in sequential orde		
	en material after a blank sheet will not be	
evaluated/checked.		
SECTIO	NA 20	
1. Attempt all parts:-		
1-a. Which are essential characteristics of	cloud computing? (CO1) 1	
(a) On-demand self service		
(b) Resource pooling		
(c) Rapid elasticity		
(d) All of these		
1-b. computing refers to app	olications and services that run on a 1	
distributed network using virtualized		
(a) Distributed		
(b) Soft		
(c) Cloud		
(d) None of the above		
1-c. NIST Reference architecture actor are	. (CO2)	
(a) Consumer		
(b) Provider		
(3) 1 10 11 10 11		

	(c) Carrier
	(d) All of these
1-d.	A Cloud environment can not be accessed from anywhere in the world as long as the user has access to the (CO2)
	(a) Internet
	(b) Extranet
	(c) Ethernet
	(d) Intranet
1-e.	Virtual machines are example of (CO3) 1
	(a) IaaS
	(b) PaaS
	(c) SaaS
	(d) All of the mentioned
1-f.	Type-1 Hypervisor runs directly on underlying (CO3) 1
	(a) Software
	(b) Hardware
	(c) Firmware
	(d) Compiler
1-g.	Which of the following are a common means for losing encrypted data? (CO4) 1
	(a) lose the keys
	(b) lose the encryption standard
	(c) lose the account
	(d) all of the mentioned
1-h.	Which is not a cloud security benefit: (CO4)
	(a) Reduced cost
	(b) reduced administration
	(c) Risk aggravation
4 .	(d) Increase reliability
1-i.	What is Google App Engine for? (CO5)
	(a) Google App Engine is for detecting malicious apps.
	(b) Google App Engine is for running web applications on Google's infrastructure
	(c) Google App Engine replaces the modern computer

	(d) Google App Engine is a system to develop hardware interfaces.	
1-j.	is the core orchestration component with OpenStack. (CO5)	1
	(a) Keystone	
	(b) Heat	
	(c) Manila	
	(d) ironic	
2. Atte	empt all parts:-	
2.a.	Define PaaS service. (CO1)	2
2.b.	Write the benefits of Private cloud? (CO2)	2
2.c.	Discuss the Virtualization in brief. (CO3)	2
2.d.	Explain global exchange of cloud resources with suitable example. (CO4)	2
2.e.	Explain Google App Engine with suitable example. (CO5)	2
	SECTION B	30
3. Ans	wer any <u>five</u> of the following:-	
3-a.	Differentiate between parallel and distributed computing. (CO1)	6
3-b.	Draw the Cloud Architecture .Explain the benefits over the parallel computing.	6
	(CO1)	
3-c.	Express the characteristics of private cloud. (CO2)	6
3-d.	Discuss the benefits and drawbacks of using "Infrastructure as a Service". (CO2)	6
3.e.	Discuss the Service oriented architecture technology in the cloud computing. How it is beneficial? (CO3)	6
3.f.	Write short note on 1) Availability 2) Modification 3) Interruption (CO4)	6
3.g.	Explain "how virtual box benefecial for virtualization" with suitable example. (CO5)	6
	SECTION C	50
4. Ans	wer any <u>one</u> of the following:-	
4-a.	Identify the drawback of client server computing and justify how to remove by	10
	cluster computing? (CO1)	
4-b.	Describe the various cloud computing services models. (CO1)	10
5. Ans	wer any <u>one</u> of the following:-	
5-a.	Discuss in detail about NIST architecture of cloud computing with actors and their functions (CO2)	10
5-b.	Elaborate the storage as a service and simple storage service and various	10

benefits of cloud storage.(CO2)

6. Answer any one of the following:-

- 6-a. Describe Hypervisor. Differentiates between native Hypervisor and Hosted 10 Hypervisor. (CO3)
- 6-b. Explain how cloud enterprise effectively manages the workload of various 10 resources. Write various techniques involved in it. (CO3)

7. Answer any one of the following:-

- 7-a. Describe Cloud Resource Provisioning and Express the various types of cloud 10 resources provisioning method. (CO4)
- 7-b. Write short note on 1) CIA model 2) cloud security standard. (CO4)

8. Answer any one of the following:-

- 8-a. Explain Hadoop Distributed File system Architecture. Describe advantages of 10 Hadoop. (CO5)
- 8-b. Explain Open Stack. Draw your review on the component that offers 10 networking facility to user in OpenStack. (CO5)

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