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	Roll. No:		
	NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA (An Autonomous Institute Affiliated to AKTU, Lucknow) MCA SEM: III - THEORY EXAMINATION (2021 - 2022)		
	Subject: Cloud Computing		
Time:	: 03:00 Hours Max. Marks:	100	
Genera	al Instructions:		
1. Al	Il questions are compulsory. It comprises of three Sections A, B and C.		
sh • Se • Se	ection A - Question No- 1 is objective type question carrying 1 mark each & Question No- 2 is thort type questions carrying 2 marks each. ection B - Question No- 3 is Long answer type - I questions carrying 6 marks each. ection C - Question No- 4 to 8 are Long answer type - II questions carrying 10 marks each. to sheet should be left blank. Any written material after a Blank sheet will not be evaluated/checker.		
	SECTION A	20	
1. Atten	mpt all parts:-		
1-a.	Which of the following has many features of that is now known as cloud computing? (CO1) 1. Web Service 2. Softwares 3. All of the mentioned 4. Internet	1	
1-b.	Cloud computing architecture is a combination of (CO1) 1. Service-oriented architecture and grid computing 2. Utility computing and event-driven architecture. 3. Service-oriented architecture and event-driven architecture. 4. Virtualization and event-driven architecture.	1	
1-c.	What is the most important area of concern in cloud computing? (CO2) 1. Storage 2. Scalability 3. Security 4. None of the above	1	
1-d.	The Private cloud is a - (CO2) 1. A cloud service inaccessible to anyone but the cultural elite 2. Standard cloud service offered via the Internet 3. Cloud architecture maintained within an enterprise data center. 4. All of the above	1	
1-e.	It helps a user to have remote access to an application from a server. (CO3)	1	

	3. Desktop virtualization	
	4. Storage virtualization	
1-f.	Cloud computing offers three services (CO3)	1
	1. TRUE	
	2. FALSE	
1-g.	Is Google Doc related to cloud computing? (CO4)	1
	1. TRUE	
	2. FALSE	
1-h.	CloudSim is a library for simulation of cloud scenarios.(CO4)	1
	1. FALSE	
	2. TRUE	
1-i.	A cloud accessing customer cannot blindly trust a cloud service provider for(CO5)	1
	1. Privacy	
	2. Non privacy	
1-j.	Managed IT services are based on the concept of(CO5)	1
	1. Utility Computing	
	2. Computing	
2. Atte	mpt all parts:-	
2-a.	Define cloud computing. (CO1)	2
2-b.	What are cloud service models? (CO2)	2
2-c.	Name the three major players in cloud based computing. (CO3)	2
2-d.	What is email communication over the cloud? (CO4)	2
2-e.	Mention the two basic need of Virtualization. (CO5)	2
	SECTION B	30
3. Ansv	wer any <u>five</u> of the following:-	
3-a.	Name the different vendors of cloud computing in current market. (CO1)	6
3-b.	Explain the need of elastic computing. (CO1)	6
3-c.	Explain the various services offered by IaaS. (CO2)	6
3-d.	Differentiate between Monitoring as a Service and Communication as a Service.(CO2)	6
3-e.	How does CloudSim work? (CO3)	6
3-f.	How does CRM cloud work? (CO4)	6
3-g.	Explain the different types of virtualization. (CO5)	6
	SECTION C	50
4. Ansv	wer any one of the following:-	
4-a.	Expalin the concept of scalabilty of cloud computing in detail. (CO1)	10

1. Application virtualization

2. Network virtualization

4-b.	Explain different types of clouds with suitable examples in detail. (CO1)	10
5. Answer	any one of the following:-	
5-a.	Under what circumstances should you prefer to use laaS over PaaS? Formulate it with an example. (CO2)	10
5-b.	Explain the various Layered Cloud Architectural Development design for effective cloud computing environment. (CO2)	10
6. Answer	any one of the following:-	
6-a.	Explain the different projects carried out by various companies using CloudSim. (CO3)	10
6-b.	Is Dropbox a cloud service provider? Discuss in detail with suitable example. (CO3)	10
7. Answer	any one of the following:-	
7-a.	Explain in detail the benefits of using calendars and schedules over cloud services. (CO4)	10
7-b.	How cloud computing can be collaborated with project management? Describe in detail. (CO4)	10
8. Answer	any one of the following:-	
8-a.	What is Virtual Machine Monitor (VMM)? Explain with suitable example. (CO5)	10
8-b.	Differentiate between system VM and process VM with suitable diagram. (CO5)	10