Printed Pa	age:-	Subject Code:- ACS0301 Roll. No:	
	(An Autonomous Institute A B. T	AND TECHNOLOGY, GREATER NOIDA  offiliated to AKTU, Lucknow)  rech.  MINATION (2021 - 2022)	
Time: 03		to Cloud Computing  Max. Marks: 1	100
General Ir	nstructions:		
1. All q	uestions are compulsory. It comprises of	three Sections A, B and C.	
very Sect No	short type questions carrying 2 marks eation B - Question No- 3 is Long answer ty tion C - Question No- 4 to 8 are Long ans		
	SEC <sup>-</sup>	TION A	20
1. Attemp	t all parts:-		
1-a.	Which is/are true regarding cloud compu	iting? (CO1)	1
	1. It does not provide ubiquitous a	access	
	<ol><li>It provides on-demand network</li></ol>	access	
	<ol> <li>Resources can not be used with 4. None of these</li> </ol>	h no management effort	
1-b.	Which of the following a company m computing? (CO1)	nust consider before moving towards cloud	1
	<ol> <li>Employee Satisfaction</li> </ol>		
	2. Potential cost reduction		
	3. Information Sensitivity		
	4. All of these		
1-c.	What is virtualized in full virtualization? (	CO2)	1
	1. Processor		
	<ol><li>Application</li></ol>		
	3. Desktop		
	4. Hardware		
1-d.	Communication between services is dor	e widely using which protocol? (CO2)	1
	1. REST		
	2. SOAP		
	3. RESTful		
	4. None of the above		
1-e.	Point out the wrong statement. (CO3)		1
	<ol> <li>The customer takes no resport or the development of the application</li> </ol>	nsibility for maintaining the hardware, the softwa tions	are,
	2. The vendor is responsible for a	II the operational aspects of the service	
	3. Google's App Engine platform	s laaS offering	
	<ol><li>None of the mentioned</li></ol>		

1-f.	XaaS – Anything as a service is classified into (CO3)	1
	1. 3 types	
	2. 4 types	
	3. 5 types	
	4. 6 types	
1-g.	The Foce.com and windows Azure are examples of which of the following? (CO4)	1
	1. laaS	
	2. PaaS	
	3. SaaS	
	4. Both A & B	
1-h.	Managed IT services are based on the concept of which one of the following? (CO4)	1
	1. Virtualization	
	2. Utility Computing	
	3. Grid Computing	
	4. SOA	
1-i.	What best describes the payment structure of most Serverless cloud providers? (CO5)	1
	1. Pay per use	
	2. One time flat service fee	
	3. Multi-tiered monthly service subscription plans	
	4. Fixed hourly rate	
1-j.	Which OpenStack component provides identity services? (CO5)	1
	1. Trove	
	2. Ceilometer	
	3. Dragonflow	
	4. Keystone	
2. Attem	pt all parts:-	
2-a.	Define Compute Optimized EC2 instances. (CO1)	2
2-b.	What are the characteristics of Virtualization? (CO2)	2
2-c.	Write a note on multi- tenancy. (CO3)	2
2-d.	Elaborate Cloud Security with examples. (CO4)	2
2-e.	Discuss a case study based on Cloud Computing. (CO5)	2
	SECTION B	30
3. Answ	er any <u>five</u> of the following:-	
3-a.	What do you understand by Cloud Computing? Explain its characteristics. (CO1)	6
3-b.	What is the meaning of "pay per use" and "on demand provisioning" in cloud computing? (CO1)	6
3-c.	Write Short Notes on: (i) Virtual Machine Manager (VMM) (ii) Virtual Server Instance (VSI) (CO2)	6
3-d.	Discuss the similarities and differences between SOA and Cloud Computing. (CO2)	6
3-e.	Draw the diagram of NIST reference architecture and discuss its key elements. (CO3)	6
3-f.	How authentication is controlled in the IAM service? (CO4)	6
3-g.	What are the most important advantages of cloud technologies for social networking application? (CO5)	6

SECTION C 50

4. Answer	any <u>one</u> of the following:-			
4-a.	Differentiate between:(i) Distributed and Parallel computing (ii) Cloud computing and Traditional Computing (CO1)	10		
4-b.	Write short notes on: (i) Utility Computing (ii) Cluster Computing (CO1)	10		
5. Answer any one of the following:-				
5-a.	What is a Hypervisor? Explain in detail with necessary illustrations. (CO2)	10		
5-b.	"Virtualization is the center of cloud resource utilization", explain how and justify your answer. (CO2)	10		
6. Answer	any one of the following:-			
6-a.	What do you understand by cloud storage? Write its features, advantages and types in detail. (CO3)	10		
6-b.	Write Short Notes on: (i) Cloud Service Models (ii) Cloud Deployment Models (CO3)	10		
7. Answer any one of the following:-				
7-a.	List the responsibilities of Cloud Customer in security policy. (CO4)	10		
7-b.	What are the Components of Amazon VPC? What are the Steps to build a Custom VPC? (CO4)	10		
8. Answer	any one of the following:-			
8-a.	What is Cloud Federation? Explain the properties of Federated Cloud. (CO5)	10		
8-b.	Explain the three components that make modular architecture of OpenStack? (CO5)	10		