Printed Pages: 2 Roll No. .. Questions Sub. Code: Exam. Code: 9 B.Engg. (Information Technology) 7th Semester 1125 **CLOUD COMPUTING** Paper-IT-734 [Maximum Marks: 50 Time Allowed: Three Hours] Note: Attempt five questions. Q. No. 1 is compulsory. Attempt two questions each from Part-A and Part-B. Define the following: 1. Hyper jacking (a) Vendor Lock-in (b) Multi-tenancy (c) CIA Triad (d) 10 Machine Image. (e) PART-A How cloud computing would help an organization in establishing 2. its infrastructure and services? Also explain Cloud Computing 10 limitations. What are the different types of hypervisors and their role in achieving 3. different types of virtualization in cloud computing? Also explain OS based Virtualization. 10 [Turn over 6864/BEG-32838

> What are the two main methods of IIR filter design? A O.6a)

Explain the architecture of ADSP 21XX family of processing

y(n) = -0.1y(n-1) + 0.12y(n-1)

b)

Comment on the various hardware and infrastructure requirement 4. for accessing the cloud and the various access mechanisms. PART-B What do you mean by Identity Management in cloud? Elaborate the key mechanisms involved in securing the data stored on the 5. cloud. How event Management is possible with cloud computing? Explain 6. cloud collaboration. Why there is a need for standardization in cloud storage? Explain 7. Cloud Data Management Interface (CDMI).

Exam. Code: 0925 Sub. Code: 6866

1128 B.E. (Information Technology) Seventh Semester

Elective - II

ITE-744: Cloud Computing

	Max. Marks	s: 50
Time allowe	ou. 5 Hours	
NOTE: A	ttempt <u>five</u> questions in all, including Question No. I wni npulsory and selecting two questions from each Unit. x-x-x	
I. /	Attempt the following:-	
	a) What are workload patterns?	
	b) Give the definition of Grid and Cloud.	
	c) What is the role of Hypervisors in Virtualization Hardware?	
		research
	d) What is Server Virtualization?"e) List out any four current issues in cloud computing leading to future	(5x2)
	directions.	
II.	a) What is the role of Virtualization in Cloud Computing? Give the arch	itecture of
	Virtualization.	(6,4)
	b) What are the benefits of virtual machines?	(10)
III.	Write down the short note on working with Public Cloud.	(10)
IV.	a) Give the implementing steps of private cloud on Eucalyptus.	(5,5)
IV.	b) Write down the characteristics of laaS, PaaS and SaaS?	(5,5)
	<u>UNIT –II</u>	
	a) What are the challenges in cloud computing in terms of application	security and
V.	a) What are the chancinges at Network security?	
	b) Explain the Security reference Model.	(5,5)
	a) What are the challenges in managing heterogeneous clouds?	
VI.	b) What are the benefits of Multi-Cloud Management Systems?	(5,5)
	b) What are the benefits of Frank	(10)
VII.	Write down the short note on future directions in Cloud Computing.	(10)

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1128 B.E. (Information Technology) Seventh Semester

Elective - II

ITE-744: Cloud Computing

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II.	a) What is the role of Virtualization in Cloud Computing? Give the arch	itecture of
	Virtualization.	(6,4)
	b) What are the benefits of virtual machines?	(10)
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VII.	Write down the short note on future directions in Cloud Computing.	(10)

Exam.Code:0925 Sub. Code: 6866

1127 B.E. (Information Technology) Seventh Semester Elective - II ITE-744: Cloud Computing

Time allowed: 3 Hours

IV

2

5

2

5+5

5+5

5+5

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Section.

Note: All questions in this Section are compulsory. Each question carries 2

- (a) Differentiate public, private and hybrid Cloud.
- (b) What are the similarities and differences of cloud computing with multiprogramming?
- (c) What is Virtual Private Cloud?
- (d) What is Multitenancy?
- (e) Give brief definition of IaaS, PaaS and SaaS.

Section-A

- II (a) What are the Benefits and Challenges of cloud computing?
 - (b) What are the selecting criteria for cloud deployment modes? What is the function of Application Programming Interfaces (API) in cloud system?

(a) What are Virtualization techniques in cloud computing? What is the role III of these techniques?

(b) What are the Private cloud building blocks?

(a) Write down the implementing steps of private cloud on cloud stack/Open Stack.

(b) Write down the implementing steps of public cloud on Windowa Azure/IBM or Rackspace.

Section- B

- (a) Explain the security concerns in Traditional IT.
- (b) Explain the Security reference Model.

5+5

What is the role of Cloud Computing in business? Give the brief introduction of business intelligence on cloud and Big Data Analytics on cloud.

10

Exam.Code:0919 Sub. Code: 7916

1127

B.E. (Computer Science and Engineering) Seventh Semester Elective - III

CS-705C: Cloud Computing

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

x-x-x

	1	A STATE OF THE PERSON OF THE P		
1.	a.	Define elasticity and multi-tenancy with respect to cloud computing.	2	
	b.	What are Type-I and Type-II hypervisors?	2	
	c.	What do you mean by virtual storage containers?	2	
	d.	Why should cloud service providers be more concerned about appropriate disposal of customer data?		
	e.	What is the motivation behind the concept of mobile cloud computing?		
	-	UNIT I		
2.	a	Elaborate the different types of Cloud Service Models.	5	
	b	Despite the success and popularity of cloud computing paradigm, a significant number of challenges are inherent to this model of computing. What are these challenges?		
		Differentiate between Full-virtualization and Para-virtualization.	5	
3.	a	Explain Network Virtualization and Memory Virtualization.	5	
	b	Explain Network Virtualization and 12	5	
4.	a	What are the various issues in providing storage as a service?	5	
-	b	Differentiate between NAS and SAN.		
-	- 0	UNITH	5	
	a	What are various data security concerns in Cloud Computing?	5	
5.	b	Discuss the utilization of cloud in Big Data Analytics. Discuss the utilization of cloud in Big Data Analytics.	5	
	-	Discuss the utilization of cloud in Big Data Analytes. Discuss some of the ways to achieve identity management in cloud computing. Discuss some of the ways to achieve identity management in cloud computing.	5	
6	a	Discuss some of the ways to achieve identity management in office ways to achieve		
	b	0	5	
		servers? Discuss various features of Amazon S3 services. Discuss various features of Amazon BigQuery.	5	
7.	a	Write a short note on BigTable and BigQuery.		
A T	b	Write a short note on Digital		