### Q. Code:348029

	Reg. No.						
	B.E / B.TECH. DEGREE EXAMINATION. MAY 2024						
	Seventh Semester						
(	CS18701 – CLOUD COMPUTING AND VIRTUALIZATION TECHNIC	QUE	S				
	(Computer Science and Engineering)						
тімі	(Regulation 2018 / Regulation 2018A)	ADK	28+ 100				
COUR	SE STATEMENT	ANN	RBT				
	1 The student will be able to describe the fundamentals of cloud computing.						
CO	2 The student will be able to explain the cloud infrastructure.		2				
CO	CO3 The student will be able to describe the concept of virtualization that is fundamental to cloud computing.						
CO	4 The student will be able to identify the emerging cloud softwares.		3				
CO	<b>CO5</b> The student will be able to identify the security issues in cloud computing.						
	(Answer all Questions)						
	(Answer an Questions)	CO	RBT				
1.	List the technologies used in cloud computing.	1	LEVEL 2				
2.	What are the benefits of cloud services for business?	1	2				
3.	Explain the issues with static resource provisioning policies.	2	2				
4.	Name some public cloud platform providers.	2	2				
5.	What are the characteristics of virtualization in cloud computing?	3	2				
6.	Compare Type-1 and Type-2 hypervisors.						
7.	How does 'Name node' handles 'Data node' failure in Hadoop Distributed File System?						
8.	Distinguish between GFS and HDFS.	4	3				
9.	What are the threats involved in cloud security?	5	2				
10.	Discuss the impact of data lock-in on cloud computing migration.	5	2				

#### PART- B (5x14=70Marks)

										Marks	СО	RBT
												LEVEL
11.(a)	Discuss	about	cluster	computing	with	cloud	computing.	Explain	the	(14)	1	2
	challenges of cloud computing.											

## (OR)

(b) Discuss the role of reference architecture in cloud computing. Also, (14) 1 2 illustrate the different types of cloud architectural model.

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12.(a)	Discuss the architectural design challenges of compute and storage clouds.	(14)	2	2					
(OR)									
<b>(b)</b>	Illustrate the inter-cloud resource management approaches.	(14)	2	2					
13.(a)	Discuss the different implementation levels of virtualization with relevant tools and techniques.	(14)	3	3					
<b>(b)</b>	Analyse the impact of virtualization in data center automation	(14)	3	3					
(0)	Thatyse the impact of virtualization in data conter automation.	(1)	U	U					
14.(a)	How does Big Table store data? Analyze the essential capabilities Big Table offers for a business to thrive.	(14)	4	3					
	(OR)								
<b>(b)</b>	Illustrate a simple word count example of the working of MapReduce.	(14)	4	3					
15.(a)	Analyze the security measures needed at various cloud service levels.	(14)	5	3					
(OR)									
<b>(b)</b>	Discuss the classes of network attacks in a P2P network and the schemes to prevent such attacks.	(14)	5	3					

# PART- C (1x10=10Marks) (Q.No.16 is compulsory)

		Marks	CO	RBT LEVEL
16.	Elaborate the building blocks of Google Cloud Platform. Also, list the	(10)	4	5
	applications of Google App Engine.			