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Sixth Semester B.TECH Examination June 2017 Course: Virtualization & Cloud Computing Code: BTCS15F6200

D	urati	on: 3 hours Max. Marks: 1	00
Note:		Answer one full question choosing from each Section. Your answer should be specific to the questions asked. Section-I(UNIT-I)	
1.		Blueprint at least three definitions of cloud computing opined by different experts. List six specific characteristics of cloud computing. Explain any two of them in	10
	c)	detail. Discuss the Risks and Challenges involved in cloud computing. OR	10
2.	a)	State what is a hypervisor and how it is controlled by VIM and also mention the uses of it in virtualization.	5
i	b)	Compare and contrast different deployment models of cloud and also state in what scenario each model is useful.	10
	c)	List three advantage and disadvantages of cloud computing and also explain the advantages.	10
		Section-II(UNIT-II)	
3.	a)	i. Logical Network Perimeterii. Cloud Storage Device	15
		iii. Resource Replication Discuss any two data center technology.	10
		OR	
4.		Explain the significance of virtual servers in context of cloud computing.	9
		Discuss several cloud storage levels. What is hypervisor? Discuss how it provides virtualization and also explain how it is	8
		controlled by VIM.	
~		Section-III(UNIT-III)	7
5.	,	Write a note on SLA monitor and also discuss how QoS requirements are fulfilled. Explain the following: i. Load Balancer	10
		ii. Pay-Per Use Monitor	
		iii. Failover System	
		iv. Resource Cluster Write a note on Automated Scaling Listener.	8
	<i>C)</i>	OR	
6.	a)	Discuss how to use Multi Device broker mechanism for cloud service and also discuss how it facilitates runtime data transformations.	10
	b)	With respect to cloud management mechanism, explain the significance of resource management system.	10
	c)	With respect to cloud management mechanism, explain the significance of billing management system.	5

		Section-IV(UNIT-IV)	
7.	a)	Section-IV(UNIT-IV) Discuss different level of Virtualization implementation. REVA - LIBRARY	8
	b)	Enumerate the virtualization techniques and its advantages.	12
	c)	Justify the significance of virtualization support at OS level.	5
		OR	
8.	a)	Mention the characteristics of virtualized environments? Explain in detail with the help of examples.	10
	b)	Discuss the CPU virtualization.	9
	c)	Outline the disadvantages of virtualization?	6