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B.Tech Degree S7 (R	S) / S5 (PT) (R,S) Examination November 2024 (201	93	cheme le			20 /
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Course Code: CST423 Course Name: CLOUD COMPUTING

Ma	ax. N	Marks: 100 Duration: 3	Hours
		PART A	
		Answer all questions, each carries 3 marks.	Marks
1		Differentiate between cluster computing and grid computing.	(3)
2		Explain the key features of SaaS with example	(3)
3		What is hypervisor? Explain the architecture of Xen hypervisor.	(3)
4		Explain the various types of Virtual Machines.	(3)
5		Write short notes on Pig Latin High Level Language.	(3)
6		What are the characteristics of Multitenant technology?	(3)
7		Write a note on confidentiality, integrity and availability.	(3)
8		List down the various types of threat agents.	(3)
9		What is Amazon Elastic Compute Cloud (EC2) of Amazon web services?	(3)
10		Discuss about Google Cloud storage offered by Google	(3)
		PART B	
		Answer any one full question from each module, each carries 14 marks.	
•		Module I	
11	a)	Discuss the NIST cloud computing reference model with a neat diagram.	(10)
	b)	Differentiate public and private clouds in terms of flexibility.	(4)
		OR	
12	a)	Explain the characteristics, benefits and challenges of cloud computing.	(10)
	b)	"A hybrid cloud is a combination of two or more other cloud deployment	(4)
		models". Justify the statement with an example.	
		Module II	
13	a)	Discuss the various techniques used in machine virtualization.	(8)
	b)	Compare Full Virtualization, Para-Virtualization and Hardware Assisted	(6)
		Virtualization.	

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14	a)	What is VMware? Discuss its elements for virtualization.	(9)
	b)	Explain the concept of operating system level virtualization with a neat diagram.	(5)
		Module III	
15	a)	What are the fundamental elements of web technology architecture of the web?	(6)
	b)	Explain the data centre technologies enabling cloud.	(8)
	٠	OR	
16	a)	What are the major functions of the MapReduce framework? Explain the	(9)
		logical data flow of MapReduce function using a suitable example.	
	b)	Explain the key features of Eucalyptus.	(5)
		Module IV	
17	a)	Describe the various kinds of cloud security threats in detail.	(10)
	b)	Why is it harder to establish security in the cloud?	(4)
		OR	
18	a)	Discuss how virtual machine security can be achieved in cloud.	(9)
	b)	Discuss the security risks posed by management OS with suitable examples.	(5)
		Module V	
19	a)	Illustrate Amazon Web Services echo system with suitable diagram.	(9)
	b)	Describe the key concepts of Amazon Storage services.	(5)
		OR	
20	a)	With a neat diagram explain Microsoft Azure platform architecture.	(9)
	b)	Describe the core components of Google AppEngine	(5)
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Page 2 of 2