Seventh Semester B.E. Degree Examination, July/August 2021 Cloud Computing and Its Applications

Max Marks: 100

Tin	ne:	hrs. Max.	Marks: 100
Note: Answer any FIVE full questions.			
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1	a.	Define cloud computing. Explain the vision of cloud computing with diagram.	(10 Marks)
•	b.	List and explain any four cloud computing technologies.	(10 Marks)
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2	a.	Illustrate the Taxonomy of virtualization techniques with a neat diagram.	(10 Marks)
_	b.	Explain OS level virtualization and application level virtualization.	(10 Marks)
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3	a.	Explain the basic components of an IaaS-based solution for cloud computing.	(10 Marks)
	b.	List and explain the types of clouds, supporting with necessary diagrams if any	
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4	a.	Explain the types of services that are hosted inside the Aneka container.	(10 Marks)
	b.	Explain with a neat diagram the life cycle of service instances within the An	eka container.
			(10 Marks)
5	a.	Describe the architecture and functionality of multi-core system.	(10 Marks)
	b.	Briefly explain the Domain Decomposition technique for parallel computatio	n. Also define
		2 types of problems identified under domain decomposition.	(10 Marks)
6	a.	Explain how Aneka can be used for the execution of workflows.	(10 Marks)
	b.	Explain how it is possible to run MPI and parameter sweep applications using the task	
		programming model.	(10 Marks)
7	a.	Explain the Map Reducing programming model with respect to Data-intensive computing.	
			(10 Marks)
	b.	Write brief note on:	
		(i) Amazon Dynamo (ii) Google Big table	
		(iii) MongoDB (iv) Apache Cassandra	(10 Marks)
8	a.	Explain Aneka Map Reduce data file format.	(10 Marks)
	b.	Explain Aneka Map Reduce scheduling service and execution service architect	ture. (10 Marks)
	J. Carlos		
9	a.	List and explain storage service of AWS.	(10 Marks)
	b.	Define SQL Azure. Explain with neat diagram SQL Azure architecture.	(10 Marks)

- Explain: 10 a.
 - Architecture and overview of the Jeeva Portal. (i)
 - The concept of EyeOS with a neat diagram. (ii)
 - Write a note on:
 - Animoto Reference Architecture. (i)
 - DropBox and icloud



Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

and Maria