APJ ABDULKALAM TECHNOLOGICAL UNIVERSITY 08 PALAKKAD CLUSTER

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Q. P. Code: CSE0821252A-I

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	SECOND SEMESTER M.TECH. DEGREE EXAMINATION JULY 2021	
Branch	h: Computer Science and Engineering Specialization: Computer Science and Engineering	gineering
	08CS6052(A) CLOUD COMPUTING	
	(Common to CSE)	
Րime։ 2	2 hour 15 minutes Max.	Marks: 60
	Answer all six questions.	
Mod	ules 1 to 6: Part 'a' of each question is compulsory and answer either part 'b' or part 'c' of each of	uestion.
Q.no.	Module 1	Marks
1.a	Give an application of cloud bursting.	3
	Answer b or c	
b	With the help of a reference architecture analyse the roles of various actors in a cloud architecture.	6
c	Differentiate between SaaS, PaaS and IaaS	6
Q.no.	Module 2	Marks
2.a	What type of paging technology would one use for memory virtualization?	3
	Answer b or c	
b	Give the applications of following tools:	6
	i) OpenVZ (ii) Xen (iii) Vmware ESX	
c	Explain about levels of Virtualization. Which level of virtualization is suited for hosting applications? Substantiate your answer	6
Q.no.	Module 3	Marks
3.a	Explain the important resource provisioning schemes in cloud.	3

Answer b or c

	AND VELOCITIES OF CASE	
b	Explain a generic cloud architecture with respect to layering of services, security, shrinking/leasing of resources.	6
c	Explain the six open challenges in cloud architecture development.	6
Q.no.	Module 4	Marks
4.a	Compare and contrast important data analysis languages.	3
	Answer b or c	
∢ _b	Explain twister as an iterative map-reduce framework.	6
c	Explain how a map-reduce job is run by a Hadoop cluster and explain the components involved	6
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Q.no.	Module 5	Marks
5.a	What is BigTable, Chubby?	4
	Answer b or c	
b	Explain the architecture of Google File system (GFS)	8
c	Write notes on Amazon EC2, Amazon S3 and Amazon EBS with respect to programming support and architecture.	8
Q.no.	Module 6	Marks
6.a	Write notes on virtual machine security.	4
	Answer b or c	
b	Explain the important baseline security measures for SaaS	8
c	Write notes on Security Architecture Design, Security Monitoring and Application Security in Cloud.	8