APJ ABDULKALAM TECHNOLOGICAL UNIVERSITY 08 PALAKKAD CLUSTER

Q. P. Code: CS0822252A-I

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Name ..

Reg. No

SECOND SEMESTER M.TECH. DEGREE EXAMINATION JUNE 2022

Branch: Computer Science and Engineering

Specialization: Computer Science and Engineering

08CS6052(A) CLOUD COMPUTING

Max. Marks: 60 Time: 3 hours Answer all six questions. Modules 1 to 6: Part 'a' of each question is compulsory and answer either part 'b' or part 'c' of each question. Q.no. Module 1 Marks 3 1.a Give an application of cloud bursting. Answer b or c **b** With the help of a reference architecture analyse the roles of various actors in 6 a cloud architecture. 6 Differentiate between SaaS, PaaS and IaaS Module 2 Marks Q.no. 2.a What type of paging technology would one use for memory virtualization? 3 Answer b or c 6 **b** Give the applications of following tools: (i)OpenVZ (ii)Xen (iii)Vmware ESX c Explain about levels of Virtualization. Which level of virtualization is suited 6 for hosting applications? Substantiate your answer. Marks Q.no. Module 3 3.a Explain the important resource provisioning schemes in cloud. 3 Answer b or c b Explain a generic cloud architecture with respect to layering of services, 6 security, shrinking/leasing of resources. c Explain the six open challenges in cloud architecture development. 6 Q.no. Module 4 Marks 3 Compare and contrast important data analysis languages.

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
).no.	Module 5	Marks
5.a	With illustration explain GAE as a PAAS.	4
	Answer b or c	in. Vinantinasia
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
).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