APJ ABDULKALAM TECHNOLOGICAL UNIVERSITY 08 PALAKKAD CLUSTER

Q. P. code: 2EA-17-1

Q.no.

(pages: 2)

Name:

Reg No:

SECOND SEMESTER M.TECH. DEGREE EXAMINATION April/May 2017

Computer Science and Engineering 08 CS 6052(A)CLOUD COMPUTING

Time: 3 hours Max.marks: 60 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 1.a Give an application of cloud bursting? 3 Answer b or c With the help of a reference architecture, analyse the roles of various actors in a cloud architecture. Differentiate between SaaS, PaaS and IaaS Q.no. Module 2 Marks What type of paging technology would one use for memory virtualization? 3 Answer b or c 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 for hosting applications? Substantiate your answer Q.no. Module 3 Marks 3.a Is disaster recovery in cloud possible using cloning of VMs? When is live migration of VMs 3 Answer b or c What type of resource provisioning method will you use for a website which is moderately 6 loaded but may experience peak demand during certain months of the year? Substantiate your answer. c Analyse data lock-in, standardization and licensing problems with respect to cloud services. 6

Module 4

Marks

4.a	Compare and contrast important data analysis languages.	3
	Answer b or c	
b	Can graph data structure be used for data analytics? Substantiate your answer.	6
c	Is it possible to run a map-reduce job in Hadoop without tasktracker? Substantiate your answer.	6
Q.no.	Module 5	Marks
5.a	Why is leasing important in GFS mutations?	4
	Answer b or c	
b	Why is master in Google File system(GFS) a single point of failure? Withstanding that, what is its role in GFS?	8
c	Substantiate how BigTable's data model is suited for Google's search application?	8
Q.no.	Module 6	Marks
6.a	What can be some measures to ensure virtual machine security?	4
	Answer b or c	
b	What can be some baseline security measures for SaaS?	8
c	Why is secure software development lifecycle important in cloud (SecSDLC)? Analyse.	8