## APJ ABDUL KALAM TECHNOLOGICALUNIVERSIT

## **08 PALAKKAD CLUSTER**

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

(pages: 2)

Name:

Reg No:



08 CS 6052(A): CLOUD COMPUTING

Time:3 hours

Max. Marks: 60

Answer all six questions. Part 'a' of each question is compulsory.

Answer either part 'b' or part 'c' of each question

Q.no.	Module 1	Marks	
1.a	Define cloud computing. Assume your company wants to launch an e-commerce website, which cloud services and deployment models will you consider for the website?	3	
Answer b or c			
b	With the help of a neat diagram, explain NIST cloud reference model.	6	
С	Briefly explain about your mini-project. Discuss the steps to convert it into a cloud application.	6	
Q.no.	Module 2	Marks	
2.a	Compare dockervs virtual machine. Assume that <b>KTU</b> has uploaded a new Ubuntudocker image with id "fea621e1b439" in the docker hub. Write down the command for running the image on your local machine.	3	
Answer b or c			
b	Explain about the various implementation levels of virtualization.	6	
С	Discuss in detail about the hardware support for virtualization in the intel x86 processor.	6	
Q.no.	Module 3	Marks	
3.a	Briefly explain about the resource provisioning methods in cloud.	3	
	Answer b or c		
b	With the help of a neat diagram, explain InterCloud Architecture.	6	
С	Explain GAE architecture in detail.	6	
Q.no.	Module 4	Marks	
4.a	What are the key components of YARN?	3	
τ.α	Answer b or c	Ū	
b	List out the steps to run a MapReduce job on a Hadoop cluster.	6	
C	Discuss in detail about the data and control flow in MapReduce.	6	

Q.no.	M APJ ABDUL KALAM TECHUDOM OCICALUMIVERSIZYOS	arks
5.a	Assume that KTU has built a webapp in GO programming language with appid "welcome-ktu" in a folder named 'welcome'. List out the commands for the following:	<b>4</b>
10/10	(i) To compile the webapp locally & start the development webserver	
	(ii) To deploy the webapp to the Google App Engine	
N. Com.	(iii) URL to access the webapp locally	
	(iv) URL to access the webapp globally	
	PA CS 6952(A) - CLOUD COMPLICAC	
	Answer b or c	
00 :a <b>b</b> i	Design & build a private cloud for your college.	8
C	Discuss in detail bout Amazon EC2 execution environment.	8
Q.no.	manufacture in Module 69' requestion rewards.	arks
6.a	What is Identity and Access Management?	4
Marks	Answer b or c	
<b>8 b</b>	How does SAML-SSO prevent man-in-the middle & replay attacks in cloud?	8
С	Explain how data is secured in cloud?	8
	With main up of a <b>neat diagram, explain N</b> IST cloud reference index	
	Shelty aspisite about your remi-project. Discuss the stone to convert it into a doda application.	
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	Answer b or c	
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