

APJ ABDULKALAM TECHNOLOGICAL UNIVERSITY
08 PALAKKAD CLUSTER



Q. P. Code : 2EA181

(Pages:2)

Name

Reg. No:

SECOND SEMESTER M.TECH. DEGREE EXAMINATION May 2018

Branch: CSE

Specialization: Computer Science and Engineering
08CS6052(A) CLOUD COMPUTING

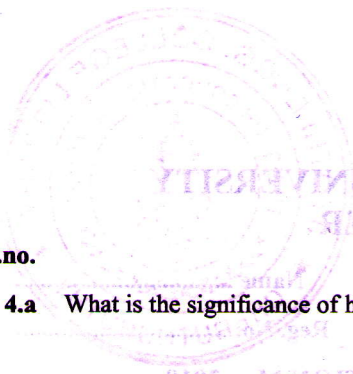
Time:3 hours

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 computing?	3
Answer b or c		
b	What are the important duties of a cloud broker? How does he fit in overall cloud environment?. Illustrate.	6
c	Differentiate between SaaS, PaaS and IaaS	6
Q.no.	Module 2	Marks
2.a	What is shadow page table and how is it used in memory virtualization?	3
Answer b or c		
b	Give the applications of following tools: (i)OpenVZ (ii)Xen (iii)Vmware ESX	6
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	Is disaster recovery in cloud possible using cloning of VMs? When is live migration of VMs used?	3
Answer b or c		
b	What type of resource provisioning method would public cloud providers normally use to scale resource allocation with user's usage? Substantiate your answer.	6
c	Analyse data lock-in, standardization and licensing problems with respect to cloud services.	6



Q.no. Module 4 Marks

4.a What is the significance of heartbeat and blockreport messages in Hadoop. **3**

Answer b or c

b Compare and contrast Dryad and Hadoop map-reduce in terms of data flow during job execution. **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 Discuss Amazon S3 as an object storage with illustration. **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**