

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY

08 PALAKKAD CLUSTER

SECOND SEMESTER M.TECH. DEGREE EXAMINATION MAY 2016

Computer Science and Engineering

08CS 6052 (A) - CLOUD COMPUTING

Max. Marks: 60

Duration: 3 Hours

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	Differentiate Public, Private and Hybrid Cloud.	3
	Answer b or c	
b	Give an overview of NIST Conceptual Cloud computing Reference Architecture.	6
c	Explain in detail about Cloud Computing Services.	6
Q.no.	Module 2	Marks
2.a	Mention the types of Virtualization. Give a short note on each.	3
	Answer b or c	
b	With the help of neat diagram. Explain the Virtualization of CPU, Memory and IO.	6
c	Give a detailed description on Virtualization Structure with diagram.	6
Q.no.	Module 3	Marks
3.a	What do you mean by global exchange of Cloud Resources?	3
	Answer b or c	
b	Explain in detail about Cloud Computing Architectural Design Challenges.	6
c	Briefly explain about Resource Provisioning and Platform Deployment.	6
Q.no.	Module 4	Marks
4.a	Define MapReduce.	3
	Answer b or c	
b	Mention the steps for MapReduce frame works. Explain each step in detail.	6
c	How can we run job in a Hadoop? Explain it with diagram.	6

Q.no.	Module 5	Marks
5.a	Write a notes on types of AML.	4

Answer b or c

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| b | Explain about Google File System Architecture with the help of diagram. | 8 |
| c | With the help of neat diagram, Explain open nebula, sector/sphere and open stack. | 8 |

Q.no.	Module 6	Marks
6.a	Write about the four layers of security which can be implemented in cloud.	4

Answer b or c

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| b | Write a detailed note on security issues in SaaS. | 8 |
| c | Illustrate Cloud Security Architecture design logically. | 8 |
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