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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
07 THRISSUR CLUSTER

SECOND SEMESTER M.TECH. DEGREE EXAMINATION APRIL 2018

Computer Science and Engineering

Computer Science and Engineering

07CS6114

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
1a	Write short note on different cloud computing architectures.	4
	Answer b or c	
b	If a software company is dealing with online project management app which service model will it use? Justify your answer.	5
c	NIST has proposed a reference model for cloud computing which is efficient and secure than other model. Justify.	5
Q.no.	Module 2	Marks
2a	Give the need for using hypervisors. Explain the features of any two commercial hypervisors.	4
	Answer b or c	
b	Virtualization abstracts services and physical resources. Elaborate on the various techniques used for it.	5
c	Virtualization ranges from hardware to applications. Suggest the implementation levels in virtualization.	5
Q.no.	Module 3	Marks
3a	Compare two commercial public cloud computing services.	4
	Answer b or c	
b	Cloud Providers supply cloud services to end users by signing SLAs. Illustrate the different resource provisioning schemes which can ensure SLA.	5
c	How do the cloud infrastructure providers ensure redundancy and reliability in case of data centre failures? Comment on the different methods for global exchange of data in cloud.	5

Q.no.	Module 4	Marks
4a	Differentiate between single node and multi node hadoop clusters.	4

Answer b or c

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| b | Suggest a file system to store very very large data sets reliably, and to stream those data sets at high bandwidth to user applications. What should be the components of this file system? | 5 |
| c | A software framework is recommended that supports parallel and distributed computing on large datasets which can provide users with two interfaces for data flow. Identify and discuss the programming paradigm. | 5 |

Q.no.	Module 5	Marks
5a	Differentiate between risk management and risk assessment.	5

Answer b or c

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| b | Virtualisation and cloud computing can help companies by breaking the physical bonds between an IT infrastructure and its users, but heightened security threats must be overcome in order to benefit fully from this new computing paradigm. Suggest some security solutions . | 7 |
| c | The security in cloud computing is a main issue. Suggest methods for implementing security as service in cloud. | 7 |

Q.no.	Module 6	Marks
6a	Discuss in brief about spreadsheets.	5

Answer b or c

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| b | If you're a part of a busy family where both spouses work, you might not be able to manually coordinate household chores and repairs and your repairs and maintenance grows larger day by day. Find a solution to this scenario with the help of cloud-based tools. | 7 |
| c | In large offices scheduling a meeting can be frustrating experience. Not only do you have to clear time from all the attendee's individual schedules, you also have to make sure the right-sized meeting room is available at the designated time. Implement this scenario with the help of cloud-based tools. | 7 |