Subject Code: 2640020

Seat No.: _____

Enrolment No.____

Date: 29/11/2018

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA - SEMESTER-IV EXAMINATION - WINTER 2018

Ti	me: 1 tructio	Attempt all questions. Make suitable assumptions wherever necessary.	70
Q.1	(a)	Write Short note on the following: (i) Virtual Cluster (ii) Multi-tenancy (iii) Virtualization (iv) Virtual Machine (v) NAS (vi) ubiquitous computing (vii) SaaS	07
	(b)	Explain the similarities and the differences between the service models of cloud computing.	07
Q.2	(a)	Define File system. Explain the different file systems available for cloud storage.	07
	(b)	What do you understand by Virtualization? Explain the characteristics of x86 system before virtualization and after virtualization with the help of diagram.	07
	(b)	OR List and explain the 5 essential things to be known while migrating to cloud.	07
Q.3	(a)	Differentiate centralized data storage and distributed data storage. Explain the	07
	(b)	various distributed cloud storage options available in market Compare the virtualization software's available in the market in tabular format. OR	07
Q.3	(a)	Explain the similarities and the differences between NAS,SAN and DAS in detail.	07
	(b)	List and explain the deployment models of cloud computing. How the public cloud deployment differs from private cloud deployment.	07
Q.4	(a)	•	07
	(b)	tools for building cloud. What do you mean by multi-tenancy? Explain the advantages and disadvantages of the same.	07
		OR	
Q.4	(a)	List all the services provided by GoogleApp Engine Cloud. Explain the storage system of GoogleApp Engine in detail.	07
	(b)	Define Cloud Computing. Explain the applications of cloud in real life.	07

Q.5	(a)	What is risk management? Explain the steps involved in risk management	07
	(b .)	process. Explain the various accurity advantages and disadvantages of cloud	07
	(b)	Explain the various security advantages and disadvantages of cloud environment.	07
		OR	
Q.5	(a)	Explain the steps of developing scalable web application on Google's cloud.	07
	(b)	What do you understand by EC2 and S3 services provided by Amazon cloud?	07
