## **GUJARAT TECHNOLOGICAL UNIVERSITY**

## MCA-IV<sup>-</sup> SEMESTER - EXAMINATION – SUMMER 2015

Subject Code: 2640020 Date:20/05/2015 Subject Name: Virtualization & Application of Cloud Time: 10:30 am - 01:00 pm

**Total Marks: 70** 

Inst	tructio	ns:	
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Q.1	(a)	<ul><li>i) What do you mean by the term Cloud Computing?</li><li>ii) List any two advantages and disadvantages of cloud and Explain them in brief.</li></ul>	03 04
	<b>(b)</b>	Explain all the four types of Cloud Computing on the basis of location in brief.	07
Q.2	(a) (b)	Classify the cloud on the basis of services in brief with appropriate diagrams. Explain the elements of Cloud Computing Reference Model in detail. OR	07 07
	(b)	What do you understand by Cloud System Architecture? Explain Single Cloud Site Architecture and Multi-datacentre Architecture with appropriate diagram.	07
Q.3	(a)	What is OS Virtualization? Explain it with advantages and disadvantages of OS Virtualization.	07
	<b>(b)</b>	What are the layers of Cloud Computing Adoption Model? Explain them with diagram.	07
		OR	
Q.3	(a)	Define the term Virtualization. Write similarities in between Cloud Computing and Virtualization.	07
	(b)	What is Server Virtualization? Explain its importance and also describe three kinds of Server Virtualization.	07
Q.4	(a) (b)	What is DAS, SAN and NAS? What is Risk Management? Explain the six-step risk management process.	07 07
		OR	
Q.4	(a)	Explain the techniques used for implementing Data Confidentiality and Data Availability in Cloud Computing.	07
	<b>(b)</b>	What are the types of Risks in Cloud Computing? Explain them in brief.	07
Q.5	(a)	State the components of Amazon Web Service. Explain them.	07
	(b)	What is Social Networking? List the benefits of cloud computing for the banking sector in brief.	07
		OR	
Q.5	(a)	How Google App Engine is useful. List the advantages of Google Apps for Business, Education and Government.	07
	<b>(b)</b>	List some Google Cloud Applications. Also explain them in detail.	07

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