

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER– IV • EXAMINATION – WINTER 2016

Subject Code: 2640020**Date: 26/10/ 2016****Subject Name: Virtualization and Application of Cloud****Time: 10.30 AM TO 01.00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Explain cloud computing Reference Model. What are the characteristics and benefits of cloud computing? **07**
- (b) Differentiate the following
- (i) Grid Computing and Cloud Computing **04**
- (ii) Public cloud and Private cloud **03**
- Q.2** (a) Explain in detail the use, users and usage of SaaS with example **07**
- (b) Explain the role of virtualization in Grid computing and cloud computing. **07**
- OR**
- (b) What is Virtualization? Explain the advantages and disadvantages of virtualization. **07**
- Q.3** (a) List and explain any 5 threats in cloud computing. **07**
- (b) Differentiate Full Virtualization and Para virtualization. **07**
- OR**
- Q.3** (a) Explain six step risk administration process in detail. **07**
- (b) Explain the cloud data stores in detail. **07**
- Q.4** (a) Explain OS virtualization in detail. **07**
- (b) State how Google Apps can be used for Business, Education and Government Operations. **07**
- OR**
- Q.4** (a) Write steps to develop and execute a web application on GoogleApp Engine. **07**
- (b) Write a short note on ThruDB and CouchDB. **07**
- Q.5** (a) Define Window Azure. Explain 3 components provided by window Azure. **07**
- (b) Write Short Note on **07**
- 1) Redundant 3-tier architecture 2) Multi-datacenter Architecture
- OR**
- Q.5** (a) Define CIA. Explain the factors contributing to CIA for data system security **07**
- (b) Write Short Note: **07**
- (i) Amazon cloud Watch
- (ii) Amazon storage system
