

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA – SEMESTER IV – • EXAMINATION – WINTER 2017

Subject Code: 2640020

Date: 06-01-2018

Subject Name: Virtualization and Application of Cloud

Time: 02:30 pm to 05:00 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)** Define Cloud Computing. Explain the difference between public and private cloud. **07**
- (b)** Explain the application of cloud computing in detail. **07**
- Q.2 (a)** Explain the Cloud service models in detail. **07**
- (b)** What is virtualization? Explain Storage level virtualization and OS virtualization. **07**
- OR**
- (b)** (i) Write a short note on the following. 1) NAS 2) SAN **04**
- (ii) Explain the types of hypervisors in brief. **03**
- Q.3 (a)** Explain the role of predecessor and contributor technologies in the evolution of Cloud computing. **07**
- (b)** Explain cloud computing Reference Model. What are the characteristics and benefits of cloud computing? **07**
- OR**
- Q.3 (a)** Explain the cloud computing Migration issues. Explain the seven step model of migration into a cloud. **07**
- (b)** What are Data intensive technologies? Explain any two of them **07**
- Q.4 (a)** Write a short note on **07**
- (i) ThruDB
- (ii) CouchDB.
- (b)** What is parallel computing? How it differs from sequential computing. **07**
- OR**
- Q.4 (a)** Explain the cloud file systems in detail. **07**
- (b)** Explain the six step risk administration process in detail. **07**
- Q.5 (a)** Explain any two cloud computing platform in detail. **07**
- (b)** Explain in detail the services provided by the Window's Azure. **07**
- OR**
- Q.5 (a)** Explain the deployment steps of the application on GAE. **07**
- (b)** Explain any three Google applications that utilizing cloud. **07**
