

GUJARAT TECHNOLOGICAL UNIVERSITY
M. E. - SEMESTER – I • EXAMINATION – WINTER • 2014

Subject code: 3715108**Date: 08-01-2015****Subject Name: Cloud Computing****Time: 02:30 pm - 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)** What is virtualization in terms of cloud? Also indicate the results of virtualization. **07**
- (b)** Explain major barriers to large scale adoption of cloud services. **07**
- Q.2 (a)** What are the security concerns that should be considered for the cloud deployments? **07**
- (b)** What are the three major features for infrastructure and strategy planning in cloud computing? **07**
- OR**
- (b)** What is the fundamental differences between the virtual machine as perceived by a traditional operating system processes and a system VM? **07**
- Q.3 (a)** What is quality of service (QoS) monitoring in a cloud computing? **07**
- (b)** Explain SAN, NAS and RAID storage. Brief different levels of RAID. **07**
- OR**
- Q.3 (a)** Explain the difference between Cloud, cluster and Grid computing. **07**
- (b)** Explain NIST models. **07**
- Q.4 (a)** What is Open Nebula Cloud? Explain main components of Open Nebula. **07**
- (b)** Discuss all the aspects Data centre networking. **07**
- OR**
- Q.4 (a)** Discuss Virtual machine management: configuration **07**
- (b)** Why organization taking action to migrate on cloud? **07**
- Q.5 (a)** Discuss cloud computing service model. **07**
- (b)** What are the cloud computing deployment models? **07**
- OR**
- Q.5 (a)** What is SaaS in Cloud computing? Explain different categories of SaaS? **07**
- (b)** List the different cloud applications available in the market? Briefly explain the scenarios/situations of when to not use clouds. **07**
