

**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**

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