

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA – SEMESTER IV – • EXAMINATION – WINTER 2015**

**Subject Code: 2640020****Date: 09/12/2015****Subject Name: Virtualization and Applications of Cloud****Time: 10:30AM to 01:00PM****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) Answer the following question [07]**
1. Define cloud computing.
  2. What is community cloud?
  3. Define network virtualization.
  4. What is compute grid?
  5. What is SIRD?M?
  6. Write full form of Amazon SQS and S3?
  7. What is GQL?
- Q.1 (b) Discuss the advantages and disadvantages of cloud computing. [07]**
- Q.2 (a) Explain difference between public, private and hybrid cloud. [07]**
- (b) Explain cloud service models. [07]**
- OR**
- (b) Explain cloud system architecture. [07]**
- Q.3 (a) Explain the structure of storage virtualization. [07]**
- (b) Explain virtualization in cloud. [07]**
- OR**
- Q.3 (a) Explain cloud storage requirements. [07]**
- (b) Explain network virtualization. [07]**
- Q.4 (a) Explain grid storage for grid computing. [07]**
- (b) Define BigData. How MapReduce and HPCC are used with it? [07]**
- OR**
- Q.4 (a) Write in detail on various cloud storage providers. [07]**
- (b) Discuss on security disadvantages in cloud environments [07]**
- Q.5 (a) Write in detail on the importance of Microsoft Windows Azure brands. [07]**
- (b) Discuss the advantages of Google apps for business and education. [07]**
- OR**
- Q.5 (a) Explain Amazon database services. [07]**
- (b) Write in detail about Google App Engine. [07]**

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