

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA – SEMESTER IV – • EXAMINATION – SUMMER 2017**

**Subject Code: 2640020**

**Date: 08-06-2017**

**Subject Name: Virtualization and Application of Cloud**

**Time: 10:30 am - 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)** Define Cloud Computing? What are the 5 essential characteristics of cloud computing? **07**

**(b)** What do you mean by virtualization? Explain in detail the types of virtualization. **07**

**Q.2 (a)** Explain the applications of cloud in real life. **07**

**(b)** Define File system. Explain the different file systems available for cloud storage. **07**

**OR**

**(b)** Define virtual machine. What are the similarities between cloud computing and virtualization. **07**

**Q.3 (a)** Explain the predecessor and contributor technologies of cloud computing. **07**

**(b)** Explain the various cloud computing platforms available in market. **07**

**OR**

**Q.3 (a)** List and explain the essential things to be known while migrating to cloud. **07**

**(b)** Define cloud architecture. Explain in detail the single and multi site architecture. **07**

**Q.4 (a)** Explain the seven step model for migration to cloud **07**

**(b)** Explain (Infrastructure as a Service) IaaS in detail. **07**

**OR**

**Q.4 (a) (i)** Explain the types of Hypervisor in detail **04**

**(ii)** Cloud computing can save money. Justify. **03**

**(b)** What do you mean by multi-tenancy? Explain the advantages and disadvantages of the same. **07**

**Q.5 (a)** What do you mean by EC2? Explain in detail. **07**

**(b)** What is risk management? Explain the steps involved in risk management process. **07**

**OR**

**Q.5 (a)** Explain in detail the services provided by the Window's Azure. **07**

**(b)** Explain the applications of Google AppEngine in detail. **07**

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