

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA– SEMESTER –IV EXAMINATION –SUMMER-2019**

**Subject Code:2640020**

**Date: 28-05-2019**

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

**Time:10.30 am to 1.00 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) i) List and explain any two advantages and disadvantages of cloud. **04**  
ii) Define network virtualization and Cloud Computing. **03**  
(b) Explain the application of cloud computing in detail. **07**

- Q.2** (a) Explain cloud service model in detail. **07**  
(b) Discuss the technologies that played an important role in the realization of cloud computing. **07**

**OR**

- (b) Define virtual machine. Explain the advantages and disadvantages of Virtualization. **07**

- Q.3** (a) Differentiate Full Virtualization and Para virtualization in brief. **07**  
(b) Define the term Virtualization. Write similarities in between Cloud Computing and Virtualization. **07**

**OR**

- Q.3** (a) State the importance of virtualization in cloud computing. **07**  
(b) Explain the cloud data stores in detail. **07**

- Q.4** (a) What is Risk Management? Discuss the risk management process. **07**  
(b) Write in detail on various cloud storage providers. **07**

**OR**

- Q.4** (a) State the key security challenges in cloud environments. **07**  
(b) What is parallel computing? How it differs from sequential computing. **07**

- Q.5** (a) Define Social Networking. Explain how cloud computing is beneficial to the banking sector in brief. **07**  
(b) What is the usefulness of Google App Engine? List the advantages of Google Apps for Government, Business and Education. **07**

**OR**

- Q.5** (a) What do you mean by EC2? Explain in detail. **07**  
(b) Explain any two cloud computing platform in detail. **07**

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