

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA-IV SEMESTER - EXAMINATION – SUMMER 2015

Subject Code: 2640020

Date: 20/05/2015

Subject Name: Virtualization & 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) i) What do you mean by the term Cloud Computing? **03**
ii) List any two advantages and disadvantages of cloud and Explain them in brief. **04**
(b) Explain all the four types of Cloud Computing on the basis of location in brief. **07**
- Q.2** (a) Classify the cloud on the basis of services in brief with appropriate diagrams. **07**
(b) Explain the elements of Cloud Computing Reference Model in detail. **07**
- OR**
- (b) What do you understand by Cloud System Architecture? Explain Single Cloud Site Architecture and Multi-datacentre Architecture with appropriate diagram. **07**
- Q.3** (a) What is OS Virtualization? Explain it with advantages and disadvantages of OS Virtualization. **07**
(b) What are the layers of Cloud Computing Adoption Model? Explain them with diagram. **07**
- OR**
- Q.3** (a) Define the term Virtualization. Write similarities in between Cloud Computing and Virtualization. **07**
(b) What is Server Virtualization? Explain its importance and also describe three kinds of Server Virtualization. **07**
- Q.4** (a) What is DAS, SAN and NAS? **07**
(b) What is Risk Management? Explain the six-step risk management process. **07**
- OR**
- Q.4** (a) Explain the techniques used for implementing Data Confidentiality and Data Availability in Cloud Computing. **07**
(b) What are the types of Risks in Cloud Computing? Explain them in brief. **07**
- Q.5** (a) State the components of Amazon Web Service. Explain them. **07**
(b) What is Social Networking? List the benefits of cloud computing for the banking sector in brief. **07**
- OR**
- Q.5** (a) How Google App Engine is useful. List the advantages of Google Apps for Business, Education and Government. **07**
(b) List some Google Cloud Applications. Also explain them in detail. **07**
