

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA SEMESTER IV – EXAMINATION – WINTER 2016

Subject code:2640013

Date: 26/10/2016

Subject Name: Cloud Computing

Time:10.30 AM TO 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) Draw and explain cloud computing reference model **07**
(b) What is virtualization and what are its benefits? **07**
- Q.2** (a) What is an SIMD architecture? **07**
(b) What is the difference between parallel and distributed computing? **07**
- OR**
- (b) Provide a brief characterization of a distributed system. **07**
- Q.3** (a) List and discuss different types of virtualization. **07**
(b) What is Xen? Discuss its elements for virtualization. **07**
- OR**
- Q.3** (a) Discuss classification or taxonomy of virtualization at different levels. **07**
(b) Discuss the architecture of Hyper-V. Discuss its use in cloud computing **07**
- Q.4** (a) Describe Amazon EC2 and its basic features. **07**
(b) Describe the core components of AppEngine. **07**
- OR**
- Q.4** (a) Compare hardware and software power management techniques. **07**
(b) Describe the major characteristics of the RESERVOIR project . **07**
- Q.5** (a) How Spring Integration works in AWS **07**
(b) What is a bucket? What type of storage does it provide? **07**
- OR**
- Q.5** (a) Illustrate the architecture of SQL Azure. **07**
(b) Write code for AWS Flow Framework for Java Synchronous Replay Behavior **07**
