

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA SEM IV EXAMINATION WINTER 2015

Subject Code: 2640013

Date: 09/12/2015

Subject Name: Cloud Computing

Time: 10.30 a.m. To 01.00 p.m.

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)** Explain the terms: Virtualization, SIMD Architecture, Service-oriented computing. **06**
- (b)** What is cloud computing? What are its characteristics and benefits? **04**
- (c)** Compare try catch of Java with Trycatch mechanism of AWS. **04**
- Q.2 (a)** Explain briefly five core technologies that played an important role in the realization of cloud computing. **07**
- (b)** What is distributed System? What are the components that characterize it.? **07**
- OR**
- (b)** What is parallel Processing? What are the approaches used for parallel programming? Describe the different levels of parallelism that can be obtained in a computing system. **07**
- Q.3 (a)** What is Xen? Discuss its elements for virtualization. **07**
- (b)** What are the components of cloud reference model? **07**
- OR**
- Q.3 (a)** What are hypervisors? Explain Type I and Type II hypervisors. **07**
- (b)** Write a note on types of cloud. **07**
- Q.4 (a)** Explain AWS flow framework architecture with diagram. **07**
- (b)** Describe Amazon EC2 and its basic features. **07**
- OR**
- Q.4 (a)** Write a note on AWS Cloud formation. Briefly explain AWS Cloud formation functionality. **07**
- (b)** Describe the core components of AppEngine. **07**
- Q.5 (a)** What are the types of applications that can benefit from cloud computing? **07**
- (b)** Discuss the strategies that can be used to retry failed activities. **07**
- OR**
- Q.5 (a)** Explain System architectural styles. **07**
- (b)** What do you mean by energy-efficient computing and why it is fundamental to cloud computing? **07**
