

**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**

\*\*\*\*\*