

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA – SEMESTER – IV EXAMINATIONS – SUMMER - 2017

Subject Code: 2640013**Date:08/06/2017****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) Define Cloud Computing? Explain the three milestones that have led to Cloud Computing. **07**
- (b) Explain the brief characteristics of a distributed system. **07**
- Q.2** (a) Write short note on : (i) Models for Message Based Communication (ii) RPC **07**
- (b) Define Service. Explain the four major characteristics of a Service. **07**
- OR**
- (b) Explain the role of virtualization in cloud computing. **07**
- Q.3** (a) Explain the hardware virtualization techniques in detail. **07**
- (b) List and explain the challenges in Cloud Computing faced by academia & Industry. **07**
- OR**
- Q.3** (a) What are the possible legal issues arising within the context of Cloud Federation? **07**
- (b) What is energy efficient computing? Why it is fundamental in cloud computing? **07**
- Q.4** (a) What is Bucket in Amazon Cloud? What type of storage does it provide? **07**
- (b) Describe the core components of AppEngine. **07**
- OR**
- Q.4** (a) What are Dropbox and iCloud? What kind of problems do they solve by using cloud technologies? **07**
- (b) Describe the major characteristics of the reservoir cloud. **07**
- Q.5** (a) Explain the types of Timeouts in Activity tasks **07**
- (b) Explain the difference between conventional workflow and Amazon SWF workflow. **07**
- OR**
- Q.5** (a) Explain in detail the AWS Flow Framework for Java Replay Behavior. **07**
- (b) Explain the error handling mechanism in AWS. **07**
