

Seat No.: _____

Enrolment No. _____

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**
