

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER-IV EXAMINATION – WINTER 2018

Subject Code: 2640013**Date: 29/11/2018****Subject Name: Cloud Computing****Time: 10.30 am to 1.00 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 the following terms: **09**
1. List five core technologies that played an important role in the realization of cloud computing.
 2. Compare try catch of Java with try catch mechanism of AWS
 3. What are the different ways to access Amazon SWF?
- (b)** What is cloud computing? Explain benefits of cloud computing. **05**
- Q.2 (a)** 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**
- (b)** What are the importance of virtualization in cloud computing? Discuss advantages and disadvantages of virtualization. **07**
- OR**
- (b)** What is a bucket? What type of storage does it provide? **07**
- Q.3 (a)** Explain Xen: paravirtualization **07**
- (b)** Discuss the architecture of Hyper-V. Discuss its use in cloud computing **07**
- OR**
- Q.3 (a)** What are hypervisors? Explain Type I and Type II hypervisors. **07**
- (b)** Describe some examples of CRM and ERP implementations based on cloud computing technologies. **07**
- Q.4 (a)** What is AWS? What types of services does it provide? **07**
- (b)** Describe the architecture of Windows Azure. **07**
- OR**
- Q.4 (a)** Explain Amazon EC2 and its basic features. **07**
- (b)** Explain 2 types of replay behavior for Java with respect to AWS framework **07**
- Q.5 (a)** Explain AWS flow Framework Application structure **07**
- (b)** Explain in brief each of the 3 methods of Exponential retry strategy for failed activities **07**
- OR**
- Q.5 (a)** Explain the process of Passing Data to Asynchronous Methods. **07**
- (b)** Describe the core components of AppEngine **07**