

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VIII(NEW) EXAMINATION – SUMMER 2019****Subject Code:2180712****Date:17/05/2019****Subject Name:Cloud Infrastructure And Services****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) State different characteristics of cloud computing? **03**
(b) Define Virtualization. Mention its different types. **04**
(c) Explain IAAS,PAAS, SAAS in details. **07**
- Q.2** (a) Define Hypervisor with two examples. **03**
(b) List the OpenIDL authentication Steps in cloud security **04**
(c) Define Amazon DynamoDB non relational database architecture with its benefits. **07**
- OR
- (c) How AWS Billing mechanism works? **07**
- Q.3** (a) Define functionalities of Identity and Access Management (IAM) ? **03**
(b) Write a note on AWS API Security **04**
(c) Define Amazon S3 with its benefits and use cases. **07**
- OR
- Q.3** (a) State different AWS services. **03**
(b) What is Amazon Glacier and how is it different from S3? **04**
(c) Mention working mechanism of AWS CloudTrail with its benefits. **07**
- Q.4** (a) Explain following terms: Pod, silos and aggregations in Cloud. **03**
(b) How Security analysis can be performed using AWS CloudTrail? **04**
(c) Write a note on AWS Security Mechanism. **07**
- OR
- Q.4** (a) Give overview of Virtual Private Cloud. **03**
(b) Compare Relational and Non-Relational Database Service **04**
(c) How Amazon Cloudwatch collect,monitor act and analyse different activities? State benefits of Amazon Cloudwatch **07**
- Q.5** (a) Mention benefits of cloud computing technology. **03**
(b) Write a note on AWS Ecosystem. **04**
(c) Explain OpsWorks offerings: AWS Opsworks for Chef Automate, AWS OpsWorks for Puppet Enterprise, and AWS OpsWorks Stacks. **07**
- OR
- Q.5** (a) Define term Machine Imaging. **03**
(b) How Chef and Puppet instances are managed using Amazon OpsWorks **04**
(c) Explain term: Disaster recovery. How Disaster recovery in Aws cloud is handled? **07**
