

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER–VIII (NEW) EXAMINATION – WINTER 2017****Subject Code: 2180712****Date: 07/11/2017****Subject Name: Cloud Infrastructure and Services(Departmental Elective - III)****Time:02:30 PM TO 05:00 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) What are the characteristics of cloud computing ? **03**  
(b) Define load balancing. What is need of load balancing in cloud computing ? **04**  
List network resources that can be load balanced.  
(c) Describe layers and types of cloud computing services. **07**
- Q-2** (a) List cloud deployment models and describe Public cloud. **03**  
(b) What is Virtual Machine? Explain Virtual Machine types. **04**  
(c) Compare different cloud service provider. **07**
- OR**
- (c) Explain in brief P2V, V2V, V2P, P2P, D2C, C2C and C2D virtual machine conversions in VMM. **07**
- Q-3** (a) What is SOAP and REST web services ? **03**  
(b) Write a note on AWS Ecosystem. **04**  
(c) Explain AWS Infrastructure. **07**
- OR**
- Q-3** (a) Write S3 URL naming conventions. **03**  
(b) Write a note on AWS API Security. **04**  
(c) Describe Elastic Block Storage (EBS). **07**
- Q-4** (a) Write overview of Redshift. **03**  
(b) What are the DynamoDB characteristics ? **04**  
(c) Describe Glacier Storage Service. **07**
- OR**
- Q-4** (a) Write overview of ElastiCache. **03**  
(b) What are the features of Relational Database Service? **04**  
(c) How Virtual Private Cloud works ? **07**
- Q-5** (a) List features of Relational Database Service. **03**  
(b) What are the functionalities of Identity and Access Management (IAM) ? **04**  
(c) How AWS deals with Disaster recovery? **07**
- OR**
- Q-5** (a) Give overview of Virtual Private Cloud. **03**  
(b) Write a short note on High performance AWS Networking. **04**  
(c) Explain Elastic Load Balancer. **07**

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