

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**M.SC(CS)- INTEGRATED– SEMESTER VI- EXAMINATION –SUMMER-2024**

**Subject Code: 1360303****Date: 01/05/2024****Subject Name: Fundamental of 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.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

- Q.1** (a) What is cloud computing? Explain its types? **03**  
 (b) What is Virtual Machines Provisioning? **04**  
 (c) What is the architecture of cloud computing? **07**
- Q.2** (a) What are the difference between SaaS, IaaS, PaaS **03**  
 (b) What is Machine Imaging and porting application in cloud computing? **04**  
 (c) Explain the Cloud Computing Layers? **07**
- OR
- (c) What is Integration of Private and Public Cloud, Technologies and Tools for Cloud Computing? **07**
- Q.3** (a) What are Virtualization Technologies? **03**  
 (b) Explain in detail about load balancing? **04**  
 (c) Design a neat diagram of an architectural Design of Computer storage and explain it. **07**
- OR
- Q.3** (a) Explain the terms: Load Balancing, Hyper visors, Virtualization. **03**  
 (b) What is Intern cloud Resource Management **04**  
 (c) What is administrating the Clouds and Cloud Management Products? **07**
- Q.4** (a) Explain Windows Azure in details? **03**  
 (b) Explain Manageability Virtual Machine Migration Services? **04**  
 (c) What is Resource Provisioning and Platform Deployment? **07**
- OR
- Q.4** (a) What is Virtual Machine Migration? **03**  
 (b) What is Hyper-Visors in details? **04**  
 (c) Explain the terminology Open Stack with its components in detail? **07**
- Q.5** (a) Discuss the google app engine with its relevant features. **03**  
 (b) Explain PaaS on IaaS – AppScale. **04**  
 (c) Which are the Tools required for Building Private Cloud: IaaS using Eucalyptus. **07**

OR

- Q.5** (a) What is Eucalyptus? Explain it in brief? **03**
- (b) Write Advantage and Disadvantages of Cloud Storage? **04**
- (c) Write in details about Implement and integrate solution for emerging markets and Cloud tools? **07**

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