

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA – SEMESTER III - EXAMINATION –SUMMER-2022

Subject Code: 639407**Date: 08/06/2022****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) (i) Explain following terms. 07**
1. Hypervisor
 2. VLAN
 3. Parallel Computing.
 4. Machine Image
 5. JPA
 6. SAN
 7. SaaS
- (b) What is Computing? Explain Cluster and Grid Computing. 07**
- Q.2 (a) What is Cloud Computing? Explain Cloud Service and Deployment Model of it. 07**
- (b) What is Virtualization? Explain CPU Virtualization in Details. 07**
- OR**
- (b) Explain Cloud Interoperability Standards. 07**
- Q.3 (a) What is SLA? Explain SLA Aspects and requirements. 07**
- (b) Explain the types of Risks involved in cloud computing. 07**
- OR**
- Q.3 (a) What is TCO for Cloud Computing? Explain its Direct and Indirect Cloud Cost. 07**
- (b) Explain Multi-tenant Environment with figure and example. 07**
- Q.4 (a) Explain Fundamental Requirements for Cloud application architecture. 07**
- (b) What is Risk in Cloud Computing? Explain Risk Assessment and Management. 07**
- OR**
- Q.4 (a) List and explain the parameters on which the bill of the resources is calculated for a particular client in Google App Engine. 07**
- (b) How the objects are saved and deleted from the Google App Engine Data store? 07**
- Q.5 (a) What do you mean by JPA? Explain the transaction processing in JPA. 07**
- (b) Explain the steps to develop and deploy a simple clock application (which prints current date and time) on Google AppEngine. 07**
- OR**
- Q.5 (a) Write the steps to create & deploy a simple "Hello World" application on Google AppEngine. 07**
- (b) Explain the Google AppEngine architecture in detail with diagram. 07**
