Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER -III EXAMINATION –WINTER-2021

Subject Code: 639407 **Date: 23/12/2021**

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) Do as directed **07**

1. Google compute engine is an example of _____
   a) SaaS b) PaaS
   c) IaaS d) Both PaaS and IaaS
2. Default URL for application deployed on Google App Engine.
   a) app-id.appspot.com b) appspot.com
   c) appspot.app-id.com d) google.appspot.com
3. Packaged solutions is one of the most important feature of _____.
   a) Desktop Virtualization b) Cloud interoperability
   c) Virtual Appliance d) Memory Virtualization
4. Define Cloud computing.
5. Give the full forms of: a) JPA b) TOC
6. Define Distributed Computing.
7. Define Web-oriented Architecture.

(b) Discuss the Cloud Service Models in detail. **07**

Q.2 (a) Describe the properties and characteristics of Cloud Computing. **07**

(b) Explain the Virtualization and its types. **07**

OR

(b) What is Cluster Computing? Explain advantages and characteristics of Cluster Computing. **07**

Q.3 (a) What is Parallel Computing? Explain Parallel Computer Architecture. **07**

(b) What is concept of SLA? Explain requirements of SLA. **07**

OR

Q.3 (a) Explain various risk associated in cloud computing. **07**

(b) Distinguish Traditional Vs. Cloud Application Architecture. **07**

Q.4 (a) What are the challenges with cloud computing? **07**

(b) What is Virtualization? Explain Virtualization in detail. **07**

OR

Q.4 (a) What are security and compliance requirements in a public cloud? **07**

(b) Explain in detail Service – Oriented Architecture (SOA). **07**

Q.5 (a) Explain JPA with Insert and Delete examples. **07**

(b) Explain each step of Developing, Registering and Uploading an Application on Google App Engine. **07**

OR

Q.5 (a) Explain and draw App Engine Architecture. **07**

(b) Explain the steps to configure a JPA Projects for course Entity. **07**

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