

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MCA – SEMESTER III- EXAMINATION –WINTER-2024**

**Subject Code:639407**

**Date: 22/11/2024**

**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.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

- Q.1 (a) Do as directed** **07**
1. Which of the following is a type of cloud computing service?
    - a) Service-as-a-Software (SaaS)
    - b) Software-and-a-Server (SaaS)
    - c) Software-as-a-Service (SaaS)
    - d) Software-as-a-Server (SaaS)
  2. Which one of the following is Cloud Platform by Amazon?
    - a) Azure b) AWS c) Cloudera d) None
  3. Give the full forms of: a) SLA b) SAN
  4. What is virtualization?
  5. What is Hybrid Cloud?
  6. What is Distributed Computing?
  7. What are the different layers in cloud computing?
- (b) What is Cloud Computing? Explain Characteristics of Cloud Computing.** **07**
- Q.2 (a) Explain Cloud Architecture in detail.** **07**
- (b) Explain concepts of VLAN and its Benefits.** **07**
- OR**
- (b) What is SAN? Explain its benefits.** **07**
- Q.3 (a) What is Risk in cloud computing? Explain Legal Risks due to Legislation,** **07**
- (b) Explain Risk of Inadequate SLA.** **07**
- OR**
- Q.3 (a) What is TCO for Cloud Computing? Explain its Types of Cloud Cost.** **07**
- (b) Describe Chargeback Models for Allocation of Direct and Indirect Cost.** **07**
- Q.4 (a) Explain SOA for Cloud Applications in detail.** **07**
- (b) Explain Assumptions for Traditional and Cloud Applications.** **07**
- OR**
- Q.4 (a) Explain Fundamental Requirements for Cloud application architecture** **07**
- (b) What is Cloud application requirement? Explain Architecture for Traditional Versus Cloud Applications.** **07**
- Q.5 (a) Explain AppEngine architecture in brief with figure..** **07**
- (b) Explain step of Developing, Registering an Application on Google App Engine** **07**
- OR**
- Q.5 (a) Write the steps to create “Good morning” application on the Google app engine.** **07**
- (b) What is JPA? Explain its all transaction examples** **07**

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