

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
MCA - SEMESTER- V -EXAMINATION – SUMMER - 2018

Subject Code: 3650012

Date: 09/05/ 2018

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 Cloud Computing is combination of Utility Computing , SLA and _____.
a) Virtualization b) SOA c) Web Services d) Distributed Computing
 - 2 _____ is a mutual agreement between customers and services provider.
a) Service Level Agreement b) Service Oriented Architecture
c) Quality of Service d) All of above
 - 3 Hybrid cloud consists of at least _____.
a) One Private Cloud b) One Public Cloud
c) One Private and One Public Cloud d) Two Private Cloud
 - 4 KVM is an example of _____ virtualization.
a) TYPE 1 b) TYPE 2 c) TYPE 3 d) OS
 - 5 An App Engine application stores its data as one or more data stores _____.
a) Entities b) Properties c) Database d) Columns
 - 6 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
 - 7 Give the full forms of: a) JPA b) VPC
- (b)** Describe the properties and characteristics of Cloud Computing. **07**
- Q.2 (a)** Discuss the Cloud Service Models in detail. **07**
- (b)** Explain the principle of Memory Virtualization. **07**
- OR**
- (b)** Explain para-virtualization with a diagram. How does para-virtualization perform better than full virtualization? **07**
- Q.3 (a)** What is Cluster Computing? Explain advantages and characteristics of Cluster Computing. **07**
- (b)** Discuss key elements, aspects and requirements considered for constructing an SLA. **07**
- OR**
- Q.3 (a)** What is Parallel Computing? Explain Parallel Computer Architecture. **07**
- (b)** What is concept of SLA? Explain requirements of SLA. **07**
- Q.4 (a)** Explain in detail Service – Oriented Architecture (SOA). **07**
- (b)** What are security and compliance requirements in a public cloud? **07**
- OR**
- Q.4 (a)** What is Virtualization? Explain Virtualization in detail. **07**
- (b)** Distinguish Traditional VS. Cloud Application Architecture. **07**
- Q.5 (a)** Explain each step of Developing, Registering and Uploading an Application on Google App Engine. **07**

(b) Explain JPA with Insert and Delete examples. **07**

OR

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

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