

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C. U. SHAH UNIVERSITY

## Summer Examination-2022

**Subject Name: Cloud Computing**

**Subject Code: 4TE06CLC1**

**Branch: B.Tech (CE)**

**Semester: 6**

**Date: 06/05/2022**

**Time: 02:30 To 05:30**

**Marks: 70**

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
  - (2) Instructions written on main answer book are strictly to be obeyed.
  - (3) Draw neat diagrams and figures (if necessary) at right places.
  - (4) Assume suitable data if needed.
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**Q-1 Attempt the following questions:**

- |                                                         |    |
|---------------------------------------------------------|----|
| a) What is Cluster Computing?                           | 01 |
| b) What are the various authentication methods in Grid? | 01 |
| c) What are the components of Cloud Computing?          | 01 |
| d) What are the Security Issues in the Cloud?           | 01 |
| e) Explain Open Grid Service Architecture?              | 01 |
| f) List down application of Grid Computing.             | 01 |
| g) List down properties of cloud computing              | 01 |
| h) Difference between grid and cloud computing.         | 01 |
| i) What is Single-System Image (SSI)?                   | 01 |
| j) What is Distributed computing?                       | 01 |
| k) What is Virtualization?                              | 01 |
| l) What are the types of Cloud service development?     | 01 |
| m) Define hybrid cloud?                                 | 01 |
| n) Explain the Pros and Cons of Cloud Computing.        | 01 |

**Attempt any four questions from Q-2 to Q-8**

**Q-2 Attempt all questions**

- |                                                      |    |
|------------------------------------------------------|----|
| a) Explain SaaS in detail with example.              | 07 |
| b) Explain Single System Image in Cluster Computing. | 07 |

**Q-3 Attempt all questions**

- |                                                                                      |    |
|--------------------------------------------------------------------------------------|----|
| a) Explain scalable parallel computer architecture in detail.                        | 07 |
| b) What is RMS (Resource Management and Scheduling)? Write services provided by RMS. | 07 |



<b>Q-4</b>	<b>Attempt all questions</b>	
a)	Explain Cluster Classification in detail.	<b>07</b>
b)	Define grid computing and explain the various building blocks of the Grid.	<b>07</b>
<b>Q-5</b>	<b>Attempt all questions</b>	
a)	Explain the top cloud risks in detail.	<b>07</b>
b)	Discuss about Cluster of SMPS.	<b>07</b>
<b>Q-6</b>	<b>Attempt all questions</b>	
a)	Explain the Beowulf cluster and Berkeley Now Clusters.	<b>07</b>
b)	Explain Cloud Models – IaaS, PaaS and SaaS.	<b>07</b>
<b>Q-7</b>	<b>Attempt all questions</b>	
a)	Define cluster computing and explain its components with an architecture diagram in detail?	<b>07</b>
b)	Explain in detail the role of virtual organization in grid computing.	<b>07</b>
<b>Q-8</b>	<b>Attempt all questions</b>	
a)	Explain in detail the role of inter grid protocols.	<b>07</b>
b)	Discuss about the various players of cloud computing	<b>07</b>

