

# C.U.SHAH UNIVERSITY

## Summer Examination-2019

**Subject Name: Cloud Computing**

**Subject Code: 4TE06CLC1**

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

**Semester: 6**

**Date: 25/04/2019**

**Time: 10:30 To 01:30**

**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:**

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|--|-----------|
| a) Define Virtualization.  | <b>01</b> |
| b) List any two Cloud security challenges.                       | <b>01</b> |
| c) Define – OGSA.  | <b>01</b> |
| d) What are the types of Cloud service development               | <b>01</b> |
| e) Define- GSI.  | <b>01</b> |
| f) What are the factors to identify the threats in cloud?        | <b>01</b> |
| g) List the three companies who offer cloud service development? | <b>01</b> |
| h) Define online groupware.                                      | <b>01</b> |
| i) Why do we use Cloud Storage?                                  | <b>01</b> |
| j) What is the use of middleware?                                | <b>01</b> |
| k) What are the derivatives of grid computing?                   | <b>01</b> |
| l) What are the properties of Cloud Computing?                   | <b>01</b> |
| m) What are the features of data grids?                          | <b>01</b> |
| n) What is meant by resource broker?                             | <b>01</b> |

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

**Q-2 Attempt all questions**

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|--|-----------|
| (a) Explain Beowulf Cluster and Berkeley NOW clusters.   | <b>07</b> |
| (b) Explain Infrastructure as a Service(IaaS), Platform as a Service(PaaS) and Software as a Service(SaaS) in Cloud Computing. | <b>07</b> |

**Q-3 Attempt all questions**

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|--|-----------|
| (a) List different types of data stored in Cloud. Compare traditional IT Service Provider and Cloud Service Provider | <b>07</b> |
| (b) List and explain steps for setting up the cluster.   | <b>07</b> |



- Q-4**            **Attempt all questions**
- (a) Why Grid is consider as next generation internet? How Grid provides restricted access to resources?            **07**
  - (b) Explain FLS algorithm for resource sharing in detail along with its analysis.            **07**
- Q-5**            **Attempt all questions**
- (a) Explain the role of RMS (Resource Management and Scheduling) technique in Resource Scheduling in cluster computing.            **07**
  - (b) What is use and significance of Microsoft's Azure platform in cloud computing? Explain components of Azure.            **07**
- Q-6**            **Attempt all questions**
- (a) Explain working of Cloud. Differentiate and compare: Public cloud, Private Cloud and Hybrid cloud.            **07**
  - (b) Explain in detail Grid Computing architecture with diagram and its components.            **07**
- Q-7**            **Attempt all questions**
- (a) Define cluster computing and explain its components with an Architecture diagram in detail?            **07**
  - (b) Define Grid Computing. Explain applications of grid computing in details.            **07**
- Q-8**            **Attempt all questions**
- (a) Explain Amazon EC2 project with its contribution in IaaS.            **07**
  - (b) Define term workload in Cloud computing. Explain types of workload in cloud with their characteristics            **07**

