

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

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. | 07 |
| (b) Explain Infrastructure as a Service(IaaS), Platform as a Service(PaaS) and Software as a Service(SaaS) in Cloud Computing. | 07 |

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 | 07 |
| (b) List and explain steps for setting up the cluster. | 07 |



- 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**

