

Enrollment No: _____

Exam Seat No: _____

C. U. SHAH UNIVERSITY

Winter Examination-2019

Subject Name: Cloud Computing

Subject Code: 4TE06CLC1

Branch: B.Tech (CE)

Semester: 6

Date: 18/09/2019

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:

- | | |
|--|-----------|
| a) What are the derivatives of grid computing? | 01 |
| b) What are the facilities provided by virtual organization? | 01 |
| c) List some grid computing toolkits and frameworks? | 01 |
| d) Define Peer to Peer Computing. | 01 |
| e) What are the major goals of OGSA? | 01 |
| f) What is mean by IaaS? | 01 |
| g) What are the properties of Cloud Computing? | 01 |
| h) Define – SOA. | 01 |
| i) What are the risks of storing data in the Cloud? | 01 |
| j) What are the types of Cloud service development? | 01 |
| k) What the difference is between distributed and cluster computing? | 01 |
| l) What are the different types of computer clusters? | 01 |
| m) What is difference between node and cluster? | 01 |
| n) What is a cluster computing framework? | 01 |

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

Q-2 Attempt all questions

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|--|-----------|
| (a) Define cloud computing and state it's desirable features | 07 |
| (b) Explain the role of RMS (Resource Management and Scheduling) | 07 |



technique in Resource Scheduling in Cluster computing.

- Q-3 Attempt all questions**
- (a) Define cluster computing and explain its components with an architecture diagram in detail? **07**
- (b) Compare different cloud service provider. **07**
- Q-4 Attempt all questions**
- (a) Explain Beowulf Cluster and Berkeley NOW clusters in detail. **07**
- (b) Why Grid is consider as next generation internet? How Grid provides restricted access to Resources? **07**
- Q-5 Attempt all questions**
- (a) List and Explain critique perspectives of Grid. **07**
- (b) Explain in brief the key services of SSI and availability Infrastructure **07**
- Q-6 Attempt all questions**
- (a) What is the difference between grid computing and Cluster computing? Explain the future of grid computing in detail. **07**
- (b) What are the major driving forces behind the growth of SaaS Technology? **07**
- Q-7 Attempt all questions**
- (a) Explain Public, Private, Community and Hybrid Cloud. **07**
- (b) Why grid computing requires distributed operating system and new programming model? Explain in detail. **07**
- Q-8 Attempt all questions**
- (a) Write a note on Amazon EC2. **07**
- (b) What is Virtual Machine? Explain Virtual Machine types. **07**

