Enrollment No: _____   Exam Seat No:_____

C.U.SHAH UNIVERSITY
Summer Examination-2018

Subject Name: Cloud Computing

Subject Code: 4TE06CLC1   **Branch: B.Tech (CE)**

Semester: 6   **Date: 02/05/2018**   **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.

Q-1   **Attempt the following questions:**   **(14)**
  a) What are the types of Cloud service development?
  b) What are computational grids?
  c) Define Cluster computing.
  d) Define virtualization.
  e) Write the any three Grid Applications.
  f) Define - Hybrid Cloud.
  g) What are the essential characteristics of cloud computing?
  h) Which of the following is deployment model?
       a) Public   b) Private   c)Hybrid   d)All of the mentioned
  i) The _____ cloud infrastructure is operated for the exclusive use of an organization.
       a) Public   b) Private   c) Community   d)All of the mentioned
  j) Which one of the following support shared nothing architecture?
       a)MPP   b)SMP   c)Cluster   c) Distributed system
  k) Which of the following service provider provides the least amount of built in security?
       a)IaaS   b)PaaS   c) SaaS   d)All of the mentioned
  l) What's the purpose of using RMS Techniques?
       a)Message Passing b) load balancing c) support SSI   d) I/O operation
  m) _____are the basic communication mode in Berkeley NOW project
       a)active message   b)fast message   c)TCP/IP Suite   d) Passive message
  n) Virtual Machine Ware (VMware) is an example of
       a)IaaS   b)PaaS   c) SaaS   d) IDaaS

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

Q-2   **Attempt all questions**
(a)   Describe the flexible load sharing (FLS) algorithm in details with its analysis.   **07**
(b)   What is virtualization? Give the comparisons between IaaS, PaaS and SaaS.   **07**

Q-3   **Attempt all questions**
(a)   Explain Architecture of the NOW System and Classify cluster computers.   **07**
(b)   Mention the characteristics of Workload. Explain the different types of Workload.   **07**

Q-4   **Attempt all questions**
(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-5   **Attempt all questions**
(a)   Explain layered Grid architecture using diagram.   **07**
(b)   Explain key services of SSI (single system image) and availability infrastructure.   **07**

Q-6   **Attempt all questions**
(a)   Explain the different cloud models in detail.   **07**
(b)   Explain High Availability Cluster and Load-balancing Cluster.   **07**

Q-7   **Attempt all questions**
(a)   Explain Cross Site Trust Management in Grid Computing.   **07**
(b)   Explain Resource Management and Scheduling in Cluster Computing.   **07**

Q-8   **Attempt all questions**
(a)   Mention the common needs of grid applications. What are the data and functional requirements of grid computing?   **07**
(b)   Explain Amazon EC2 project in detail.   **07**