PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B.Tech Winter 2022-23 Examination

Semester: 7   Date: 08/10/2022
Subject Code: 203105445   Time: 10:30 am to 01:00 pm
Subject Name: Cloud Computing   Total Marks: 60

Instructions:
1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

Q.1 Objective Type Questions - Fill in the blanks, one word answer, MCQ-not more than Five in   **(15)**
case of MCQ) (All are compulsory) (Each of one mark)

1. What is an important concern for the customer in multi-tenant environments?
   A : Availability
   B : Network bandwidth
   C : Network latency
   D : Security
2. What is a correct description of a Thin Client?
   A) a Client computer without a screen
   B) a user terminal without a processor
   C) a Personal Computer without a hard drive
   D) a mobile phone with access to the internet
3. Which of the following is deployment model?
   A: Public
   B: Private
   C: Hybrid
   D: All of the mentioned
4. What is the disadvantage of cloud computing
   A: Limited Control
   B: Low Maintenance cost
   C: Excellent accessibility
   D: Unlimited storage capacity
5. Which cloud is deployed when there is a budget constraint but business autonomy is most
   essential?
   A: Private cloud
   B: Public cloud
   C: Hybrid cloud
   D: Community cloud
6. Define a Cloud.
7. Define Virtualization.
8. What is Public Cloud?
9. Give name of two popular Software as a Service solution.
10. What is resource pooling.
11. Google Apps is a suite of cloud computing _____applications that includes e-mail (Gmail),
    Organizer (Google Calendar), Word Processing document (Google Docs), and others.
12. _____describes a cloud service accessible only to a limited number of people.
13. _____ refers to the unified management of IT services and resources in order to streamline
    end-to-end IT and business processes.
14. Users of EUCALYPTUS interact with the system using the exact same tools and interfaces that
    they use to interact with Amazon_____.
15. The _____ specification enables the integration of different security systems and provides
    real-time notifications of incidents and of user misbehavior.

Q.2 Answer the following questions. (Attempt any three)   **(15)**
   A) Describe SOA and SLA.
   B) Define Amazon Elastic Compute Cloud (EC2).
   C) Discuss Classification of virtualization at different levels of cloud computing.
   D) What are the pros and cons of SaaS.

Q.3 A) Why one should prefer public cloud over private cloud. **(07)**

B) Explain the cloud deployment model, in details. Also outline their benefits and limitations. **(08)**

OR

B) Discuss major security issues in cloud computing. Also discuss various techniques to overcome this issues. **(08)**

Q.4 A) What is hypervisor? Explain different types of hypervisor in details with adantages and disadvantages. **(07)**

OR

A) What pros and cons of cloud computing in comparison to distributed and grid computing. **(07)**

B) Discuss the following concepts: **(08)**
   a) Billing service
   b) Elasticity
   c) Multi tenancy
   d) Eucalyptus