

Tribhuvan University  
**Institute of Science and Technology**

2071

☆

Bachelor Level/ Fourth Year/ Seventh Semester/ Science  
**Computer Science and Information Technology (CSc. 458)**  
**(Cloud Computing)**

Full Marks: 60  
Pass Marks: 24  
Time: 3 hours.

*Candidates are required to give their answers in their own words as far as practicable.*

**Attempt all Questions**

**(10 x 6= 60)**

1. How can you define cloud service? Describe the characteristics of a cloud service.
2. Differentiate between each of the private, public and hybrid cloud models with suitable examples.
3. What is the role of Early Detection and Intelligent Log Centralization and Analysis services in Monitoring-as-a-service (MaaS) Model?
4. What are the benefits of using Software-as-a-Service (SaaS) Model? Briefly discuss about the maturity levels of SaaS Architecture.
5. What do you mean by Service Oriented Architecture (SOA)? How cloud services get benefitted by SOA?
6. What are the Managed Service Providers (MSP)? Discuss the evolution of MSP Model to Cloud Computing.
7. What is the need for data center virtualization? What are the benefits of data center virtualization?
8. Explain the different approaches for enforcing host security in a cloud environment.
9. What do you mean by disaster recovery? How recovery point objective differs from recovery time objective?
10. Write short notes on (Any Two)
  - a) Data Segmentation and Credential Management
  - b) Role of open source software in cloud computing
  - c) Grid Computing

