

Tribhuvan University
Institute of Science and Technology
2071(I)

Bachelor Level / eighth-semester / Science

Computer Science and Information Technology(CSC458)

(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.

The figures in the margin indicate full marks.

Attempt all the questions.

- 1. How can you define cloud service? Describe the characteristics of a cloud service.**
- 2. Differentiate between each of 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 benefited 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**