

Tribhuvan University
Institute Of science and technology
2071

Bachelor Level/Fourth Year/Eighth Semester/Science

Full Marks: 60

Computer Science and Information Technology

Pass Marks: 24

(CSc. 458 Cloud Computing)

Time: 3 hours.

Candidates are required to give their answer in their words as far as practicable.

The figures in the margin indicate full marks.

Attempt all questions.

(10*6=60)

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-Service (MaaS) Architecture.
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 service 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 disaster recovery? How recovery point objectives differs from recovery time objective?
10. Write short notes on:
 - A) Data segmentation and credential management.
 - B) Roles of open source software in cloud computing.
 - C) Grid Computing.