

Tribhuvan University
Institute of Science and Technology
2073

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. What do you mean by cloud? Describe the basic characteristics of a cloud.
2. What type of deployment models can be adopted in cloud computing. Describe each of them with suitable example.
3. Discuss the capabilities that the cloud users can get through Platform-as-a-Service (PaaS). Also mention the key characteristics of PaaS.
4. How the Jericho Cloud Cube model dimensions like perimeterised, de-perimeterised and proprietary, open differentiate the cloud formations from each other?
5. What do you mean by Service Oriented Architecture (SOA). How can you characterize Service Oriented Architecture?
6. What are the Managed Service Providers (MSP). Discuss the evolution of MSP Model to cloud computing.
7. Define virtualization. What is the role of virtualization in cloud computing?
8. What do you mean by an intrusion in a cloud network? How intrusion in cloud networks are detected?
9. How data segmentation and credential management ensures host security in a cloud? Explain with suitable example.
10. Write short notes on (any two):
 - a) Risk Assessment in Cloud
 - b) Role of Open Source Software in Cloud Computing
 - c) Grid Computing