

Tribhuvan University
Institute of Science and Technology
2074

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. Define the term cloud in cloud computing. Conceptualize self-provisioning and provisioning capability in cloud computing.**
- 2. What is para-virtualization? How virtualization is used to enforce cloud computing services?**
- 3. Define cloud migration. What are the reasons for the companies to migrate from traditional computing environment to cloud computing environments?**
- 4. What do you mean by anything-as-a-service? How external and internal dimension in Jericho cloud cube model differs from the proprietary and open dimension?**
- 5. Explain how services like early detection, log centralization and continuous system patching are provided under Monitoring-as-a-Service?**
- 6. Mention the similarities and dissimilarities between managed service providers cloud service providers. How organizations can get benefited by virtualizing the data centers?**
- 7. Why cloud services are designed based on the loosely coupled component principle of Service Oriented Architecture(SOA)? How SOA is used in designing cloud services?**
- 8. What is host security? Discuss various approaches for ensuring host security in cloud networks.**
- 9. Why it is important to assess the concept of recovery time objective in disaster recovery? How disaster recovery is done in cloud infrastructure?**
- 10. Discuss the various services provided under Infrastructure-as-a-Service(IaaS)?**