

Tribhuvan University
Institute of Science and Technology
2071(II)

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 questions.

- 1. How grid computing differs from cloud computing? Justify what the self-service provisioning and multitenancy properties of cloud computing means?**
- 2. Describe possible services that can be achieved through Infrastructure-as-a-Service (IaaS).**
- 3. What do you mean by Elastic IP Addressing? Describe How Elastic IPs work in cloud services.**
- 4. Discuss about the planning needed for building the Services Oriented Architecture.**
- 5. What are the Managed Services Providers(MSP)? Discuss the evolution of MSP Model to Cloud Computing.**
- 6. "Virtualization is the key to cloud computing", justify this statement with proper arguments. How hypervisors are used in cloud computing services?**
- 7. Explain the different types of implementing Network Intrusion Detection Systems in cloud.**
- 8. What can be the impact of disasters in cloud? How geographic redundancy and organizational redundancy ensures disaster recovery in cloud services.**
- 9. Discuss how security architecture and trust architecture ensure security of cloud services networks.**
- 10. Write short notes on(any two)**
 - a) Jericho Cube Model**
 - b) Role of open source software in cloud computing**
 - c) Utility Computing**