

Tribhuwan University
Institute of Science and Technology
2078

Bachelor Level / eighth-semester / Science

Computer Science and Information Technology(CSC458)

(Cloud Computing)

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

The figures in the margin indicate full marks.

Full marks: 60

Pass marks: 24

Time: 3 hours

Attempt all questions(10*6=60)

1. Define cloud computing. Discuss the challenges in cloud computing environments.
2. Discuss the features that make cloud computing better than traditional on premise computing.
3. How grid computing architecture is different than cloud computing architecture?
4. What is virtualization? How cloud services are based on the concept of virtualization?
5. Differentiate platform as a service, infrastructure as a service and software as a service with each other.
6. How managed service providers evolved as cloud service providers? How multi purpose architectures have been adapted by them?
7. Define service oriented architecture. Why it is defined as black-box and loosely coupled architecture?
8. What is intrusion detection? How network intrusion detection systems are implemented in cloud networks?
9. What is disaster in cloud? How disaster management is done in cloud infrastructures?
10. Write short notes on:
 - a. Jericho Cube Model
 - b. Recovery Time Objective and Recovery Point Objective.