

Tribhuvan University  
**Institute of Science and Technology**

2072

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Bachelor Level/ Fourth Year/ Seventh Semester/ Science  
**Computer Science and Information Technology (CSc. 458)**  
**(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.*

**Attempt all Questions**

**(10 x 6= 60)**

1. Explain the components of cloud computing.
2. Explain platform-as-a-service (PaaS) and its characteristics.
3. Explain the cloud data center and its applications.
4. Explain the software-as-a-service and its characteristics.
5. Explain the service provided by the amazon EC2 service from user perspective.
6. Explain the service oriented architecture (SOA) and its characteristics.
7. Explain the Jericho cloud cube model.
8. Explain the cloud security challenges.
9. What do you mean by network intrusion detection?
10. Explain the disaster recovery planning in cloud system.

