Tribhuvan University

Institute of Science and Technology

2073

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 Bachelor Level/ Fourth Year/ Seventh Semester/ Science
 Full Marks: 60

 Computer Science and Information Technology (CSc. 458)
 Pass Marks: 24

 (Cloud Computing)
 Time: 3 hours.

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

Attempt <u>all</u> Questions

 $(10 \times 6 = 60)$

- 1. What do you mean by cloud? Describe about the basic characteristics of 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? 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 intrusions 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 (Any Two):
 - a) Risk Assessment in Cloud
 - b) Role of open source software in cloud computing
 - c) Grid Computing

