## Tribhuvan University Institute of Science and Technology 2073

**I** 

Bachelor Level/Fourth Year/Eight 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 on their own words as for practicable. The figures in the margin indicate full marks.

## Attemptallquestions.

- 1. Whatdoyou mean bycloud? Describe about the basic characteristics of cloud. [1+5]
- 2. What type of deploymentmodelscan be adopted in cloud computing Describe each of them with suitable example? [6]
- 3. Discussthe capabilitiesthatthecloud userscangetthroughPlatform-as-a-Service(paas). Alsomention thekeycharacteristicsofPeas. [3+3]
- 4. HowtheJerichoCloudCubemodel dimensionslike *perimeterised*, *deperimeterised* and *proprietary*, opendifferentiate the cloud formations from each other?

[6]

5. Whatdoyou mean by Service Oriented Architecture? Howcan you characterize Service Oriented Architecture?

[2+4]

6. WhataretheManagedService

Providers (MSP)? Discuss the evolution of MSPM odel to Cloud Computing

[2+4]

- 7. Definevirtualization. Whatisthe role of virtualization in cloud computing? [2+4]
- 8. What do you mean by an intrusion in a cloud network? How intrusions in cloud networks are detected. [2+4]
- 9. How data segmentation and credentialmanagement ensureshostsecurity in a cloud? Explain with suitable example. [6]
- 10. Writeshortnoteson(any two)

[3x2=6]

- a) Risk Assessment inCloud
- b) Role of opensourcesoftware in cloud computing
- c) Grid Computing