Tribhuvan University
Institute of Science and Technology
2076

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

Attempt all questions.

1. How the term cloud has been instantiated in cloud computing? Discuss the benefits of adapting cloud computing environments.   [2+4]

2. What is the need for adapting hybrid cloud deployment model? How this model differs from public and private deployment models?   [2+4]

3. Discuss the various dimensions used by Jericho cloud model to describe cloud computing.   [6]

4. Describe the cloud services provided under Monitoring-as-a-Service.   [6]

5. What is communication as a service? What features are provided under this service? Mention advantages of this cloud service.   [2+2+2]

6. What is data center virtualization? Discuss the building blocks of data centers.
                                                                              [2+4]
7. What is service oriented architecture? Mention its role in building cloud systems
                                                                              [3+3]
8. Discuss the security architecture, trust architecture and governance framework for ensuring cloud security controls.   [6]

9. Discuss different apporaches used for ensuring host security in cloud networks.[6]

10. Write Short Notes on   [2×3=6]

    a. Amazon Web Services

    b. Grid Computing