Tribhuvan University

Institute of Science and Technology

2069

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Bachelor Level/ Fourth Year/ Seventh Semester/ Science	Full Marks: 60
Computer Science and Information Technology	Pass Marks: 24
(CSc. 458 – Cloud Computing)	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 (10x6=60)

1. Explain the cloud computing model and its benefits. (6)

2. Explain the cloud deployment models. (6)

3. What are the differences between public clouds and private clouds? (6)

4. What are implementation issues on SAAS? Explain. (6)

5. Explain platform as a service and its challenges. (6)

6. Explain the data center virtualization. (6)

7. What do you mean by Service Oriented Architecture (SOA)? Explain with example. (6)

8. How can we design the security architecture in the cloud? Explain. (6)

9. Explain the process if implementation of Network Intrusion detection. (6)

10. Explain the disaster recovery planning of cloud computing. (6)

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Attempt all questions   **(10x6=60)**

1. How can you define cloud service? Describe the characteristics of cloud service.   (2+4)

2. Differentiate between each of private, public and hybrid cloud models with suitable examples.   (6)

3. What is the role of Early Detection and Intelligent Log Centralization and Analysis services in Monitoring-as-Service (MaaS) Model?   (6)

4. What are the benefits of using Software-as-a-Service (SaaS) Model? Briefly discuss about the maturity levels of SaaS Architecture.   (2+4)

5. What do you mean by Service Oriented Architecture (SOA)? How cloud services get benefited by SOA?   (2+4)

6. What are the Managed Service Providers (MSP)? Discuss the evolution of MSP Model to Cloud Computing.   (2+4)

7. What is the need for data center virtualization? What are the benefits of data center virtualization?   (6)

8. Explain the different approaches for enforcing host security in a cloud environment.   (6)

9. What do you mean by disaster recovery? How recovery point objective differs from recovery time objective?   (2+4)

10. Write short notes on (**any two**):   (6)
    a) Data Segmentation and Credential Management
    b) Role of open source software in cloud computing
    c) Grid Computing