

Program: Diploma in Information Technology

Full Marks: 80

Year/Part: III/I (2022)

Pass Marks: 32

Subject: Cloud Computing

Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt any EIGHT questions.

1. What is cloud computing? Explain the types of cloud and its services. (2+8)
2. What are the different cloud computing development models? Explain. (10)
3. Describe the term virtualization in cloud computing. Explain software as a service. (5+5)
4. What do you mean by VMware? Explain its features and infrastructure. (2+8)
5. What is cloud security? Explain security challenges and risks. (2+8)
6. List out the different cloud computing platforms. Explain any two of them. (4+6)
7. Describe the different software license models in cloud computing? What are the open challenges in cloud computing? (5+5)
8. What is service level agreement in cloud computing? Explain SLA lifecycle. (2+8)
9. Write short notes on: (Any TWO) (2×5)
 - a. Infrastructure as a service
 - b. Azure platform
 - c. Cloud for IOT

Good Luck !

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Attempt any EIGHT questions.

1. What do you mean by cloud storage? Explain the types of cloud and its services. (2+8)
2. Explain platform as a service and software as a service of cloud computing. (5+5)
3. What is virtualization? Explain the benefits of virtualization. (2+8)
4. What is thin client? Explain hypervisor management software. (4+6)
5. What is security? What are the different security challenges and risks faced by cloud computing? (2+8)
6. List out the different cloud computing platforms. Explain about amazon web services (AWS) and google app engine. (4+6)
7. Explain cloud migration. What are the different business application of cloud computing? Explain. (4+6)
8. What is service level agreement in cloud computing? Explain SLA lifecycle. (2+8)
9. Write short notes on: (Any **TWO**) (2×5)
 - a. Application of cloud computing
 - b. Virtual machine security
 - c. Cloud for IOT
 - d. Hybrid cloud
 - e. Cloud cost model

Good Luck !

Program: Diploma in IT Engineering
Year/Part: III/I (2016)
Subject: Cloud Computing (Elective I)

Full Marks: 80
Pass Marks: 32
Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt Any Eight questions.

1. What is cloud computing? Explain the characteristics of cloud computing. (4+6)
2. What is virtual machine? Write down limitations and benefits of cloud computing. (2+6)
3. Explain public cloud, private cloud and hybrid cloud. (10)
4. List some cloud storage providers. Explain utility computing and Elastic Computing. (2+8)
5. Define web services. Differentiate between platform as service and infrastructure as service. (2+8)
6. What do you mean by cloud file system? Explain about Big table and H Base. (2+8)
7. Explain the features and functions of Xen cloud platforms. (10)
8. Explain Open Nebula and Apache virtual computing Lab (VCL). (10)
9. Explain security and infrastructure related to cloud for the enterprise as service. (10)
10. Write short notes on: (Any **TWO**) (2×5=10)
 - a) Web applications and web APIs
 - b) Cloud data stores
 - c) Cloud Architecture

Good Luck !

Office of the Controller of Examinations

Sanothimi, Bhaktapur

Regular/Back Exam – 2079, Bhadra/Ashwin

Program: Diploma in IT Engineering
Year/Part: III/I (2016)
Subject: Cloud Computing (Elective-I)

Full Marks: 80
Pass Marks: 32
Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt Any Ten questions.

1. Define cloud computing. Explain its characteristics. (2+6)
2. Differentiate between information model and data model for virtual machine. (8)
3. Explain Public and private cloud. (8)
4. What do you mean by utility computing and elastic computing? Explain. (8)
5. Explain software as a service and platform as a service. (8)
6. Describe various security issues in cloud. (8)
7. Explain the history of cloud computing in brief. (8)
8. List out cloud computing platforms. Explain any two of them. (4+4)
9. Explain Big table, H base. (4+4)
10. Explain security management regarding cloud computing. (4+4)
What is the usage of “EUCALYPTUS” in cloud computing?
11. Write short notes on: (Any **TWO**) (2×4=8)
 - a) Storage as a service
 - b) Cloud file system
 - c) Web applications

Good Luck !