

6th Sem./CSE/Information Technology/ 2022(S)

Th-3 Cloud Computing

Full Marks: 80

Time- 3 Hrs

Answer any five Questions including Q No.1& 2
Figures in the right hand margin indicates marks

1. Answer **All** questions 2 x 10
 - a. What do you mean by cloud computing?
 - b. Name the three basic components of federated cloud?
Mention the name of different types of service model in cloud computing?
 - c. What do you mean by virtualization? Write the full form of VMM.
 - d. Write down the basic components of cloud computing.
 - e. What does RPO & RTO stand for?
 - f. Name 3 companies provide PaaS.
 - g. Write down the need of a digital certificate.
 - h. Define agility on cloud and cloud interoperability?
 - i. Mention the name of various types of VPN.
2. Answer **Any Six** Questions 6 x 5
 - a. Outline the characteristics of cloud computing.(any five)
 - b. Explain in detail about the cloud adoption.
 - c. Sum up the Strategies of Disaster Recovery.
 - d. Describe about the Deployment model in Cloud Computing.

- e. Portray the Key principles behind the Cloud Computing Device Fault Tolerance.
- f. Explain the working principle of cloud ecosystem.
- g. What does Hadoop stand for? Illustrate the layers of Hadoop architecture?

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| 3 | Outline the components of Cloud Computing. Explain about the Cloud Computing layers with proper diagram. | 10 |
| 4 | Mention the name of various cloud computing organizations that focused on addressing standards. Explain about the Role of standards in cloud-computing environments | 10 |
| 5 | Define data centre in cloud computing. Write down the various components of data centre. Explain about the Cisco Data Centre Network architecture in brief. | 10 |
| 6 | Explain the need of virtualization in cloud computing. Describe various types of virtualization in cloud computing. | 10 |
| 7 | Write down the name cloud technologies (any three). Outline the case study of Google App Engine and Microsoft Azure. | 10 |

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Answer any five Questions including Q No.1& 2
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1. Answer **All** questions 2 x 10
 - a. Differentiate between encryption and decryption?
 - b. What does RPO&RTO stand for?
 - c. Write down the basic components of cloud computing?
 - d. What is cloud federation?
 - e. Name three companies that provide PAAS?
 - f. Mention the name of various types of VPM?
 - g. What is storage networking?
 - h. What is Google app engine?
 - i. What is scalability and fault tolerance in cloud computing?
 - j. What is the role of disaster recovery in cloud computing?
2. Answer **Any Six** Questions 6 x 5
 - a. Explain service models of cloud computing?
 - b. What are the different types of virtualisation in cloud computing?
 - c. Explain the concept of cloud security. What are the challenges associated with cloud security and how can they can be addressed?
 - d. Write down various applications in cloud computing.
 - e. Differentiate between VLAN and VSAN.
 - f. Explain digital certificate briefly.
 - g. What are the characteristics of cloud computing?
3. What is cloud interoperability? Discuss the need for interoperability in cloud environment. 10
4. What is Hadoop? Illustrate the layers of Hadoop architecture? 10
5. What are the types of clouds in cloud computing architecture? 10
State the advantages and disadvantages of each type?
6. Define data center in cloud computing. Write down the various components of data center .Explain the cisco data center network architecture? 10
7. Describe the role of standards in cloud computing environment. 10
How do standards help in achieving interoperability and portability of cloud services?

6TH SEM. /CS&E / IT/ 2024(S)

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Answer any five Questions including Q No.1& 2
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1. Answer **All** questions 2 x 10
 - a. Define SSO.
 - b. What is VPN tunnelling?
 - c. What do you mean by resilience?
 - d. How does cloud storage work?
 - e. Name the cloud providers who offer load balancing service.
 - f. State the difference between RTO & RPO.
 - g. Define DaaS. Where can it be used?
 - h. State the difference between SAN & NAS.
 - i. What are deterrent controls?
 - j. Name the cloud provider who offers SaaS, PaaS & IaaS.
2. Answer **Any Six** Questions 6 x 5
 - a. Differentiate between cloud & data centre.
 - b. Describe the evolution of cloud technologies.
 - c. Explain the cloud computing architecture briefly.
 - d. Differentiate between public cloud & private cloud.
 - e. Why is cloud scalable? Explain the benefits of cloud scalability.
 - f. Classify the types of server virtualization.
 - g. Define policy implementation. Classify the types of policy.
3. Briefly describe the Hadoop architecture with suitable diagram. 10
4. Describe the principles of cloud security architecture. 10
5. What are the challenges faced by cloud computing security? 10
Explain briefly.
6. Define VMM. Explain the benefits of hypervisor. Classify the types 10
of hypervisor with advantages & disadvantages.
7. Define map reduce. Illustrate the map reduce architecture. 10