

**2023**  
**B.A./B.Sc.**  
**Sixth Semester**  
DISCIPLINE SPECIFIC ELECTIVE – 3  
**COMPUTER SCIENCE**  
*Course Code: CSD 6.11*  
(Cloud Computing)

*Total Mark: 70*  
*Time: 3 hours*

*Pass Mark: 28*

*Answer five questions, taking one from each unit.*

**UNIT-I**

1. (a) What is cloud computing? List and explain the characteristics of cloud computing. 1+6=7  
(b) Write a note on the service-oriented architecture (SOA). 7
2. (a) What is virtualization? Explain the types of virtualizations. 2+6=8  
(b) Differentiate between grid computing and utility computing. 6

**UNIT-II**

3. (a) Explain the cloud computing architecture with an illustration. 8  
(b) Write a note on cloud computing infrastructure. 6
4. (a) What is hypervisor? Explain type1 and type2 hypervisor along with their pros and cons. 1+8=9  
(b) What are the differences between cloud computing and traditional computing? 5

**UNIT-III**

5. (a) Explain PaaS. What are the tools provided by PaaS? 2+4=6  
(b) Explain some SaaS services. List some advantages and disadvantages of SaaS. 4+4=8

6. (a) What do you mean by cloud deployment models? Explain public, private, and hybrid cloud deployment models. 1+9=10  
(b) Differentiate between IaaS, PaaS, and SaaS. 4

#### UNIT-IV

7. (a) What is cloud service management? Explain the tasks in cloud service management. 1+6=7  
(b) List and explain any seven components of a good SLA. 7
8. (a) What do you mean by cloud scalability? Explain the three types of cloud scalability. 2+6=8  
(b) Write a note on red hat cloud services. 6

#### UNIT-V

9. (a) List the security planning to be considered before deploying resources to the cloud. 4  
(b) Write a note on CSA stack model. 4  
(c) Explain the different types of security levels in cloud infrastructure. 6
10. (a) List and explain some issues in data privacy. 5  
(b) What is AaaS? What are the authentication strategies provided by AaaS? 1+8=9
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