2024

B.A./B.Sc.

Sixth Semester

DISCIPLINE SPECIFIC ELECTIVE - 3

COMPUTER SCIENCE

Course Code: CSD 6.11 (Cloud Computing)

Total Mark: 70 Pass Mark: 28

Time: 3 hours

Answer five questions, taking one from each unit.

UNIT_I

- (a) Define cloud computing. What are the pros and cons of using cloud computing?
 1+6=7
 - (b) Write a short note on the history of cloud computing. 3
 - (c) Discuss any one recent trend in cloud computing. 4
- 2. (a) What is virtualization? Briefly explain all the types of virtualizations. 2+6=8
 - (b) Explain grid computing. Describe the topology in grid computing.

2+4=6

7

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UNIT-II

- 3. (a) List and describe the components of cloud computing infrastructure.6
 - (b) With the help of an illustration, explain the frontend and backend of the cloud computing architecture.
- 4. (a) Write any seven differences between type1 and type2 hypervisors. 7
 - (b) Explain the different tasks in cloud management.

UNIT-III

- 5. (a) What are cloud service models? Describe the three types of service models with diagrams. 1+9=10
 - (b) Write any four benefits and drawbacks of using SaaS.

6.	(a)	Explain public, private and hybrid cloud deployment models along with their pros and cons.	
	(b)	Differentiate between multi-cloud and hybrid cloud deployment models.	nt 5
		UNIT-IV	
7.	(b)	What are data centers? How do they work? Why is cloud service management important? Write some clouservice management tasks. Briefly explain the types of cloud scalability.	1+2=3 ud 2+6=8 3
8.	(b)	What is meant by SLA? Explain the three types of SLA. Write any three properties of a good SLA. List the differences between cloud elasticity and cloud scalabil	1+6=7 3 ity. 4
		UNIT-V	
9.		What is meant by cloud security? Explain the cloud security principles. What is cloud storage? What are managed and unmanaged cl	
	(c)	storage? Write a note on broker cloud storage.	1+2=3
10.	, ,	What do you understand by data security and data privacy? Very any two issues in data security as well as in data privacy. List and discuss any four authentication methods in the cloud.	Vrite 2+4=6 4
		With the help of a diagram, explain the working of SSO.	4