SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech. IV Year I Semester Regular & Supplementary Examinations December-2024
CLOUD COMPUTING
(Common to CSE & CSIT)

Time: 3 Hours   Max. Marks: 60

(Answer all Five Units 5 x 12 = 60 Marks)

UNIT-I

1	a	Explain the evolution of distributed computing and its role in scalable computing over the Internet.	CO1	L2	6M
	b	List and discuss the elements of grid.	CO1	L1	6M

OR

2	a	Explain the Cloud Computing Stack.	CO1	L2	6M
	b	What are the primary components of fundamental cloud architectures? Discuss their roles in cloud computing.	CO1	L4	6M

UNIT-II

3	a	Compare and contrast the different types of cloud deployment models: Public cloud, Private cloud, and Hybrid cloud.	CO2	L3	6M
	b	Explain Briefly about Deployment Models.	CO2	L2	6M

OR

4	a	What is SLA management, and how does it ensure the reliability and quality of cloud services?	CO2	L2	6M
	b	How do deployment models differ in terms of security, cost, and scalability? Provide examples.	CO2	L4	6M

UNIT-III

5	a	Explain the different implementation levels of virtualization and their role in cloud computing.	CO3	L2	6M
	b	Describe virtual clusters with its advantages.	CO3	L2	6M

OR

6	a	What are virtual clusters, and how do they aid in resource management in cloud environments?	CO3	L3	6M
	b	Interpret Live VM Migration Steps and Performance Effects.	CO3	L4	6M

UNIT-IV

7	a	Explain the importance of authentication and authorization in cloud infrastructure security. Discuss methods used at network, host, and application levels.	CO4	L5	6M
	b	Compare and contrast the security challenges at the network, host, and application levels in a cloud environment.	CO4	L3	6M

OR

8	a	Interpret the various Authorization Methods.	CO4	L3	6M
	b	Describe the Life cycle of identity management.	CO4	L2	6M

UNIT-V

9	a	State the Characteristics of Mobile Cloud Computing Application.	CO5	L2	6M
	b	Explain how Mobile Cloud Computing enhances the performance and usability of mobile applications.	CO5	L4	6M

OR

10	a	Explain about general security in mobile cloud computing.	CO5	L2	6M
	b	Illustrate a typical mobile cloud computing environment.	CO5	L2	6M

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