SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)
B.Tech. IV Year I Semester Regular & Supplementary Examinations October/November-2025
CLOUD COMPUTING
(Common to CSIT & CSE)

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 highlighting key milestones and technologies involved.	CO1	L2	6M
	b	Compare and contrast parallel computing and distributed computing paradigms with suitable examples.	CO1	L4	6M

OR

2	a	Differentiate between computational grid, data grid, and network grid with examples.	CO1	L4	6M
	b	Explain the architecture of Service-Oriented Architecture (SOA) with its main components.	CO1	L2	6M

UNIT-II

3	a	Define Cloud Computing and explain in detail about the XaaS (Everything as a Service) concept.	CO2	L2	6M
	b	Determine and explain the different Service Models in Cloud Computing with examples.	CO2	L4	6M

OR

4	a	Explain in detail the Software as a Service (SaaS) model with suitable examples.	CO2	L2	6M
	b	Compare and contrast IaaS, PaaS, and SaaS in terms of functionality and user control.	CO2	L4	6M

UNIT-III

5	a	Explain in detail the different implementation levels of virtualization with examples.	CO3	L2	6M
	b	Illustrate the various virtualization structures available with neat diagram.	CO3	L3	6M

OR

6	a	Summarize the concept of memory virtualization and its importance.	CO3	L2	6M
	b	Illustrate I/O virtualization with an example and explain its significance.	CO3	L3	6M

UNIT-IV

7	a	Explain about various Authentication Methods used in Cloud Security.	CO4	L2	6M
	b	Interpret the different Authorization Methods used in cloud environments.	CO4	L3	6M

OR

8	a	Describe the Life Cycle of Identity Management in detail.	CO4	L2	6M
	b	List and explain the major activities supported by Identity and Access Management (IAM).	CO4	L2	6M

UNIT-V

9	a	Give the factors that promote the adoption of Mobile Cloud Computing (MCC).	CO5	L2	6M
	b	State and explain the characteristics of Mobile Cloud Computing applications.	CO5	L1	6M

OR

10	a	Explain the concept of Offloading in Static and Dynamic Environments.	CO5	L2	6M
	b	What do Partitioning Strategies mean? How is Adaptive Dynamic Partitioning Strategy (ADPS) implemented for program partitioning?	CO5	L1	6M

*** END ***