Reg. No.												

Question Paper Code	12228

M.E. / M.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2023

Second Semester

M.E. - Computer Science and Engineering

20PCSPC203 - CLOUD COMPUTING TECHNOLOGIES

(Regulations 2020)

Duration: 3 Hours Max. Marks: 100

PART - A (10 × 2 = 20 Marks)

Answer ALL Questions

		Marks, K-Level, CO
1.	What is meant by binary translation?	*2,K1,CO1*
2.	What approach would be used for live VM migration?	*2,K1,CO1*
3.	Mention the relative merits of virtualization at various levels.	*2,K1,CO2*
4.	Differentiate full virtualization and para-virtualization.	*2,K2,CO2*
5.	List the main characteristics of cloud computing.	*2,K1,CO3*
6.	Differentiate service aggregation and service arbitrage.	*2,K2,CO3*
7.	Distinguish traditional RDBMS with Map Reduce.	*2,K2,CO4*
8.	What is Open stack?	*2,K1,CO4*
9.	List the security challenges in cloud computing.	*2,K1,CO6*
10.	What is meant by Trust Management?	*2,K1,CO6*

PART - B (5 × 13 = 65 Marks)

Answer ALL Questions

11.	a)	Discuss in detail about Virtual Machine taxonomy with a neat diagram.	*13,K2,CO1*
		OR	
	b)	(i) Define virtualization at OS level. List the pros and cons of OS level virtualization.	*7,K2,CO1*
		(ii) Describe middleware support for virtualization.	*6,K2,CO1*
12.	a)	Discuss in detail about Virtualization structure, Tools & Mechanisms.	*13,K2,CO2*
		OR	
	b)	Explain the Virtualization of CPU, Memory and I/O.	*13,K2,CO2*
13.	a)	Discuss in detail about the Layered Cloud Architecture design with neat diagram.	*13,K2,CO3*
		OR	

b) Describe service and deployment models of a cloud computing environment with illustrations. *13,K2,CO3*

14. a) Draw the structure of Nimbus and explain each of its components. *13,K2,CO4*

OR

b) Discuss in detail about the Hadoop framework. *13,K2,CO4*

15. a) Illustrate in detail about Cloud Infrastructure Security. *13,K3,CO6*

OR

b) Interpret in detail about the Identity Access Management and Trust management. *13,K3,CO6*

PART - C (1 × 15 = 15 Marks)

16. a) Elaborate with neat diagram the working of Map Reduce with an example. *15,K3,CO5*

OR

b) Illustrate the development of Online Mark Processing System using Google App Engine. *15,K3,CO5*