Reg. No.								
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**Question Paper Code** 

13738

# M.E. - DEGREE EXAMINATIONS, APRIL / MAY 2025

Second Semester

# M.E. - Computer Science and Engineering

(Common to M.E. - Computer Science and Engineering (with Specialization in Networks))

## 24PCSPC203 - CLOUD COMPUTING TECHNOLOGIES

Regulations - 2024

Duration: 3 Hours Max.	Maı	rks: 100		
PART - A $(10 \times 2 = 20 \text{ Marks})$ Answer ALL Questions	Marks K- CO			
1. Illustrate VM creation with suitable examples.	2	K2 CO1		
2. State the purpose of virtual machine monitor.	2	K1 CO1		
3. Recall resource pool.	2	K1 CO2		
4. List the relative merits of virtualization at various levels.	2	K1 CO2		
5. List the main characteristics of cloud computing.	2	K1 CO3		
6. Compare cloud consumer and provider.	2	K2 CO3		
7. Outline the function of a Job Tracker in Hadoop.	2	K2 CO4		
8. Compare between traditional RDBMS with Map Reduce.	2	K2 CO4		
9. Illustrate the different levels of cloud security.	2	K2 CO6		
10. List the uses of application security.	2	K1 CO6		
PART - B (5 × 13 = 65 Marks)  Answer ALL Questions  11. a) (i) Explain the taxonomy of Virtual Machines.				
(ii) Write short notes on Emulation in virtual machines.				
OR	7	K2 CO1		
b) (i) Discuss about the server consolidation in data centers.				
(ii) Illustrate about the virtual storage management.	6	K2 CO1		
12. a) Interpret about Desktop and Memory virtualization process in detail with an example.  OR	13	K2 CO2		
b) Explain about the Implementation levels of Virtualization.	13	K2 CO2		
by Explain about the implementation levels of virtualization.	-			
13. a) Illustrate in detail about the Layered Cloud Architecture design with neat diagram.	13	K2 CO3		
K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create				

#### OR

- b) Outline and discuss about the different types of Resource provisioning. 13 K2 CO3
- 14. a) Analyze the structure of Eucalyptus and explain each of its <sup>13</sup> <sup>K4</sup> <sup>CO4</sup> components.

### OR

- b) Compare and contrast about Open stack and Nimbus. 13 K4 CO4
- 15. a) Infer about the Cloud Infrastructure Security with suitable examples. 13 K2 CO6

### OR

b) Discuss in detail about the Identity Access Management and Trust 13 K2 CO6 management.

## **PART - C** $(1 \times 15 = 15 \text{ Marks})$

16. a) Inspect the HDFS concepts with suitable illustrations and write a word 15 K4 CO5 count application with Hadoop Map Reduce programming model.

#### OR

b) Discover how to set up a private cloud for a Multispecialty Hospital 15 K4 CO5 using any one of the cloud environments.