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VIVEKANANDHA COLLEGE OF ENGINEERING FOR WOMEN
[AUTONOMOUS INSTITUTION AFFILIATED TO ANNA UNIVERSITY, CHENNAI]
Elayampalayam – 637 205, Tiruchengode, Namakkal Dt., Tamil Nadu.

Question Paper Code: 5005

B.E. / B.Tech. DEGREE END-SEMESTER EXAMINATIONS – MAY / JUNE 2024

Sixth Semester

Computer Science and Engineering
U19CS625 – CLOUD COMPUTING
(Regulation 2019)

Time: Three Hours

Maximum: 100 Marks

Answer ALL the questions

Knowledge Levels (KL)	K1 – Remembering	K3 – Applying	K5 - Evaluating
	K2 – Understanding	K4 – Analyzing	K6 - Creating

PART – A

(10 x 2 = 20 Marks)

Q.No.	Questions	Marks	KL	CO
1.	List the main characteristics of Cloud computing.	2	K2	CO1
2.	Differentiate private and hybrid cloud.	2	K3	CO1
3.	What is Host VM? Give Example.	2	K3	CO2
4.	Mention the virtual clusters.	2	K1	CO2
5.	Why resource provisioning needed?	2	K3	CO3
6.	What are storage clouds?	2	K2	CO3
7.	Write the use of Hive.	2	K2	CO4
8.	Define Megastore.	2	K1	CO4
9.	Mention Cloud applications related to healthcare.	2	K3	CO5
10.	List any 2 security issues in cloud.	2	K2	CO5

PART – B

(5 x 13 = 65 Marks)

Q.No.	Questions	Marks	KL	CO
11. a)	Explain NIST Cloud Computing Architecture with neat diagram.	13	K2	CO1
(OR)				
b)	What are types of cloud model? Explain in detail.	13	K2	CO1

12.	a)	i.	Explain XEN hypervisor model in detail. Mention its advantages.	7	K3	CO2
		ii.	Explain virtual private cloud in detail.	6	K2	CO2
			(OR)			
	b)	i.	Explain virtualization of CPU, I/O devices with neat diagram. How virtualization helps VMM?	7	K3	CO2
		ii.	Explain Virtualization of data center automation in detail.	6	K2	CO2
13.	a)		Explain layered cloud architecture development diagram. What are the design challenges?	13	K3	CO3
			(OR)			
	b)		How inter cloud resources are managed? Explain about resource provisioning and platform deployment.	13	K3	CO3
14.	a)		Explain google file system in detail.	13	K2	CO4
			(OR)			
	b)		Explain MS Azure in detail.	13	K2	CO4
15.	a)		What are the cloud security challenges and Risks? How Risk management is handled in cloud computing. Explain in detail.	13	K3	CO5
			(OR)			
	b)		How cloud computing used for scientific applications. Explain in detail.	13	K3	CO5

PART – C

Q.No.	Questions	(1 x 15 = 15 Marks)			
		Marks	KL	CO	
16.	a)	Explain MapReduce with an example relevant to your college/institute. What are its advantages?	15	K3	CO4
		(OR)			
	b)	Explain Cloud application related to Business and Consumer Applications. Which type of cloud service model can be considered here? What type cloud storage can be used for this?	15	K3	CO5