Galgotias College of Engineering and Technology, Greater Noida

Pre University Test (PUT) : Odd Semester 2024 -2025

Course/Branch	:	B.Tech/IT,CSE	Semester	: VII
Subject Name	:	Cloud Computing	Max. Marks	: 100
Subject Code	:	KCS 713	Time	: 180 min

CO-1 : Describe architecture and underlying principles of cloud computing. K3

CO-2 : Explain need, types and tools of Virtualization for cloud. K3,K4

CO-3 : Describe Services Oriented Architecture and various types of cloud services. K2, K3

CO-4 : Explain Inter cloud resources management cloud storage services and their providers Assess security services and standards for cloud computing. K3,K4

CO-5 : Analyze advanced cloud technologies. K3,K6

Section – A # 20 Marks (Short Answer Type Questions)

Attempt **ALL** the questions. Each Question is of 2 marks (10 x 2 = 20 marks)

Q. No.		COx	Question Description # Attempt **ALL** the questions. Each Question is of 2 marks
1	a	CO1	What are the service models available in cloud computing? (K1)
	b	CO1	Why is cloud computing required? List the five characteristics of cloud computing. (K1)
	c	CO2	Explain components of web services. (K2)
	d	CO2	What is utility computing? (K1)
	e	CO3	Compare public cloud and private cloud. (K2)
	f	CO3	What is VM network routing? (K1)
	g	CO4	List the security issues in cloud. (K1)
	h	CO4	What are IaaS, PaaS, and SaaS? (K1)
	i	CO5	List four levels of federation. (K1)
	j	CO5	What is the use of cloud watch in amazon EC2? (K1)

Section – B # 30 Marks (Long / Medium Answer Type Questions)

Attempt **ALL** the questions. Each Question is of 6 marks (5 x 6 = 30 marks)

Q.2 (CO-1): Define cloud computing and explain its evolution with neat diagram. (K2)

OR

Explain the major cloud features of Google applications engine. (K2)

Q.3 (CO-2): Describe the different techniques used for implementation of hardware virtualization. Explain them with diagram. (K2)

OR

What do you mean by cloud federation? Explain the four levels and future of federation in details. (K2)

Q.4 (CO-3): Explain the major goal of NIST. Also explain the different layers in cloud computing. (K2)

OR

Discuss cloud storage and its types. (K2)

Q.5 (CO-4): Discuss web services in detail. Also distinguish between API and web services. (K2)

OR

Explain IAM and its advantages and disadvantages. Also explain the risks in cloud computing. (K2)

Q.6 (CO-5): Elaborate the virtualization of CPU, memory, and I/O devices in detail. (K2)

OR

Explain Hadoop and its history. Also illustrate Hadoop architecture. (K2)

Section – C # 50 Marks (Medium / Long Answer Type Questions)
Attempt **ALL** the questions. Each Question is of 10 marks.

Q.7 (CO-1): Attempt any ONE question. Each question is of 10 marks.
    a. Explain cloud computing security architecture in detail. (K2)
    b. Illustrate infrastructure virtualization and cloud computing solutions with the help of diagram. (K3)

Q.8 (CO-2): Attempt any ONE question. Each question is of 10 marks.
    a. Distinguish between cloud computing and distributed computing. (K5)
    b. Explain load balancing and its advantages in detail. (K2)

Q.9 (CO-3): Attempt any ONE question. Each question is of 10 marks.
    a. What are the different security challenges in cloud computing? Discuss each in brief. (K2)
    b. Illustrate NIST cloud computing reference architecture in details.(K3)

Q.10 (CO-4): Attempt any ONE question. Each question is of 10 marks.
    a. Analyze in detail about major deployment models and services for cloud computing. (K4)
    b. Analyze key objectives and challenges of cloud security governance in detail. (K4)

Q.11 (CO-5): Attempt any ONE question. Each question is of 10 marks.
    a. Illustrate any five web services of Amazon in detail. (K3)
    b. Illustrate resource provisioning and resources provisioning methods. (K3)

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