PRN:		Course Code :	P70PC102

First Year M.Tech (Artificial Intelligence & Data Science)

Semester End Examination **Winter 2024**

Cloud Computing 000435

Day and Date: Mon - 2 DEC 2024 Max Marks: **50**

Time : 10:30AM To 12:30PM Duration: **02** hrs

Instructions:

1) All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following.**			
	a)	List cloud computing models.	02	1	CO1
	b)	List any four Advanced Cloud Services.	02	1	CO2
	c)	Draw Identity and access management (IAM) working block diagram.	02	1	CO3
	d)	List any four features of Cloud storage architectures and services.	02	1	CO4
	e)	What is Edge computing?	02	1	CO5
Q.2		**Attempt the following.**			
	a)	Describe NIST reference architecture with diagram.	05	4	CO1
	b)	Explain Public Cloud deployment models.	05	4	CO1
		OR			
	b)	Explain Hybrid Cloud deployment models.	05	1	CO2
Q.3		**Attempt any two.**			
	a)	Explain Container orchestration with Kubernetes in Cloud Services.	05	4	CO2
	b)	Describe Micro services architecture and its implementation in the cloud.	05	4	CO3
	c)	Illustrate Server less computing and Function as a Service (FaaS) with block diagram.	05	3	CO3
Q.4		**Attempt any two.**			
	a)	List and explain regulatory issues in cloud computing.	05	4	CO4
	b)	Draw and Explain Cloud storage architectures.	05	5	CO4
	c)	Describe Cloud security fundamentals and best practices.	05	4	CO4
Q.5		**Attempt any two.**			
	a)	Describe Big Data analytics and machine learning in the cloud with example.	05	4	CO5
	b)	Explain Internet of Things (IoT) and cloud convergence with example.	05	4	CO5
	c)	Explain Artificial Intelligence (AI) and Machine Learning (ML) integration in the cloud with example.	05	4	CO5

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