

## INDIRA UNIVERSITY, PUNE

## SCHOOL OF INFORMATION TECHNOLOGY-MSC (CA)

Term End Examination (2025 Pattern) December – 2025 - Semester – I

Subject Name: Cloud Computing  
Subject Code: 25PCA104T

Max. Marks: 25  
Time: 1:30 Hrs.

## Instructions

- All Questions are Compulsory.

CO #	Cognitive Ability	Course Outcome
CO2	Understanding	Explain virtualization techniques for optimizing cloud infrastructure.
CO3	Apply	Apply techniques to develop and migrate cloud applications.
CO5	Evaluate	Evaluate cloud security measures for safeguarding data.

Q1.	<p><b>Attempt any 5 out of 7. (1 mark each) (5 Marks)</b></p> <p>a) Explain the concept of cloud computing in your own words. b) Explain virtualization in computing? c) Relate cloud and grid computing. d) Indicate any one feature of containers in cloud computing. e) Differentiate a private cloud from a public cloud in simple terms. f) Explain the concept of load balancing in cloud computing. g) Express AWS Lambda use.</p>	CO2
Q2.	<p><b>Attempt any 2 out of 4.(5 mark each) (10 Marks)</b></p> <p>a) Demonstrate how the key features of cloud infrastructure management can be applied to improve system performance in an organization. b) Identify the key features of virtual machine provisioning? c) Discover Emerging Cloud Software Environments such as serverless, AI/ML, edge, and multi-cloud systems. d) Prepare the notes on Docker and Kubernetes in detail along with their features, advantages, and challenges</p>	CO3
Q.3.	<p><b>Attempt all questions.</b></p> <p>a) Assess the effectiveness of the three service models of cloud computing (IaaS, PaaS, SaaS) in meeting different organizational needs, with justification. <b>(5 Marks)</b> b) Justify the virtual machine lifecycle and manageability in cloud computing <b>(5 Marks)</b></p> <p style="text-align: center;"><b>OR</b></p>	CO5
Q.3	<p>Explain features of Comet Cloud that make it a hybrid cloud-grid environment? <b>(10 Marks)</b></p>	CO5

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