

## Mid Semester Examination

Name of the Course: MCA

Semester III

Name of the Paper: Virtualization and cloud computing

Paper Code: TMC-303(2)

Time: 1-1/2 Hour

Maximum Marks: 50

Note:

- (i) Answer all the questions by choosing *anyone of the sub questions*.
- (ii) Each question carries 10 marks

Q1	(10 marks)	
(a)	What does "scalable computing over the Internet" mean, and why is it important in modern IT architecture?	CO1
	OR	
(b)	Explain the concept of cloud storage and give examples of popular cloud storage providers.	
Q2	(10 marks)	
(a)	Compare and contrast the system models for distributed computing and cloud computing.	CO1
	OR	
(b)	How does on-demand self-service relate to the cloud computing model, and why is it important?	
Q3	(10 marks)	
(a)	Differentiate between IaaS, PaaS, and SaaS service models.	CO2
	OR	
(b)	What are some common security challenges in cloud computing, and how can they be mitigated?	
Q4	(10 marks)	
(a)	Describe the four primary cloud deployment models: public, private, hybrid, and community. Provide examples of each.	CO2
	OR	
(b)	Explain the concept of Google App Engine, and highlight its advantages for developers.	
Q5	(10 marks)	
(a)	Provide an overview of Amazon Web Services (AWS) and its significance in the cloud industry.	CO2
	OR	
(b)	What are the key features of Google Cloud Platform (GCP) that differentiate it from other cloud providers?	