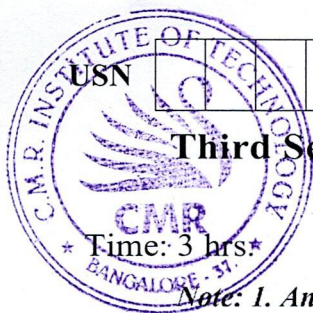


CBCS SCHEME



22MCA332

Third Semester MCA Degree Examination, Dec.2025/Jan.2026

Cloud Computing

Max. Marks: 100

*Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.*

Module – 1			M	L	C
Q.1	a.	Explain with a neat diagram, Cloud Computing Reference model.	10	L2	CO1
	b.	Discuss the challenges in cloud computing in detail.	10	L2	CO1
OR					
Q.2	a.	What is Cloud Computing? Explain the characteristics and benefits of cloud computing.	10	L2	CO1
	b.	How two technologies Grid computing and Web 2.0 have contributed for cloud computing? Explain briefly.	10	L2	CO1
Module – 2					
Q.3	a.	Define Distributed Systems. Explain layered view of distributed computing along with a neat diagram.	10	L3	CO2
	b.	Explain Call and Return architectural style in detail.	10	L3	CO2
OR					
Q.4	a.	Web services are the choice for service oriented design. List the reasons. Explain the steps in web service interaction reference scenario.	10	L3	CO2
	b.	Define Service. Explain the characteristics that identify service.	10	L3	CO2
Module – 3					
Q.5	a.	Explain with a suitable diagram managed execution in virtualization.	10	L2	CO3
	b.	What is a hypervisor? With a neat diagram differentiate between types of hypervisors and explain the same.	10	L2	CO3
OR					
Q.6	a.	Explain briefly operating system level virtualization, and Desktop virtualization.	10	L2	CO3
	b.	Briefly explain disadvantages of virtualization.	10	L2	CO3
Module – 4					
Q.7	a.	Discuss Infrastructure as a service model and analyze the functionalities of its components.	10	L2	CO4
	b.	Explain the sectors where community clouds are used.	10	L2	CO4

OR

Q.8	a.	Explain the needs for private cloud along with its advantages.	10	L2	CO4
	b.	Discuss the benefits of software as a service in detail.	10	L2	CO4
Module – 5					
Q.9	a.	Briefly explain compute services of Microsoft Azure.	10	L2	CO4
	b.	Explain the role of cloud computing in protein structure prediction.	10	L2	CO4
OR					
Q.10	a.	Explain CRM and ERP applications of cloud computing.	10	L2	CO4
	b.	Discuss how cloud computing is useful in Geo service.	10	L2	CO4

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