



# CBCS SCHEME

22MCA332

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**Third Semester MCA Degree Examination, Dec.2023/Jan.2024**

## Cloud Computing

Time: 3 hrs.

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.	Illustrate with figure bird's eye view of cloud computing and practical examples of cloud computing.	10	L2	CO1
	b.	Outline cloud reference model with definition, benefits and characteristics of cloud.	10	L2	CO1
<b>OR</b>					
Q.2	a.	Categorize different distributed models supported in the growth of cloud computing.	10	L4	CO2
	b.	Explain following techniques: Virtualization, Web 2.0, Service-Oriented computing	10	L2	CO2
<b>Module – 2</b>					
Q.3	a.	List and explain parallel and distributed computing differences.	06	L2	CO2
	b.	Explain SIMD and MISD hardware architectures with figures.	08	L2	CO2
	c.	Outline components of distributed computing along with neat figure.	06	L3	CO2
<b>OR</b>					
Q.4	a.	Illustrate data centered and data flow architectures.	10	L3	CO2
	b.	Categorize and explain system architectural styles.	10	L2	CO2
<b>Module – 3</b>					
Q.5	a.	Illustrate the characteristics of virtualized environments with neat diagrams.	08	L3	CO3
	b.	Explain full virtualization in hardware virtualization techniques.	06	L2	CO3
	c.	Explain application-level virtualization.	06	L2	CO3
<b>OR</b>					
Q.6	a.	Explain hardware-level virtualization along with hypervisor functionalities.	10	L2	CO3
	b.	Discuss Xen example for para virtualization along with figure.	10	L2	CO3
<b>Module – 4</b>					
Q.7	a.	Explain with figure the cloud reference architecture.	10	L2	CO4
	b.	Explain with figure IaaS reference implementation along with figure.	10	L2	CO4
<b>OR</b>					
Q.8	a.	Classify and explain various types of cloud.	10	L2	CO4
	b.	Discuss the open challenges in cloud computing.	10	L2	CO4
<b>Module – 5</b>					
Q.9	a.	List and explain compute services of Amazon web services.	10	L2	CO4
	b.	Explain Google AppEngine with platform architecture.	10	L2	CO4
<b>OR</b>					
Q.10	a.	Illustrate with figure cloud environment for satellite data processing.	10	L3	CO4
	b.	Explain PropBox and iCloud applications with figure.	10	L2	CO4

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