CBCS SCHEME

USN | | | | | | | | | | |

22MCA332

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
		OR			
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
		Module – 2			
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
		OR			
Q.4	a.	Illustrate data centered and data flow architectures.	10	L3	CO2
	b.	Categorize and explain system architectural styles.	10	L2	CO2
		Module – 3			
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
		OR			
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
		Module – 4			
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
		OR			
Q.8	a.	Classify and explain various types of cloud.	10	L2	CO4
	b.	Discuss the open challenges in cloud computing.	10	L2	CO4
		Module – 5			
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
		OR			
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

* * * * *