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CBCS SCHEME

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BCS601

Sixth Semester B.E./B.Tech. Degree Examination, June/July 2026
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.	Explain high-performance and high throughout system with a block diagram.	10	L2	CO1
	b.	Define Virtual Machine with a neat diagram explain the 4 VM primitive operations.	10	L2	CO1
		OR			
Q.2	a.	Explain the classification of parallel and distributed computing systems.	10	L2	CO1
	b.	With a neat diagram explain five thread micro architectures in modern CPU.	10	L2	CO1
		Module – 2			
Q.3	a.	What is virtualization? Explain the types of virtualization with a neat diagram.	10	L2	CO2
	b.	What are physical and virtual clusters? Explain with a neat diagram and also mentioned properties of virtual clusters.	10	L2	CO2
		OR			
Q.4	a.	Discuss various levels of virtualization implementation with a neat diagram.	10	L2	CO2
	b.	Write a note on : i) VM – based intrusion detection ii) Live VM migration steps.	10	L1	CO2
		Module – 3			
Q.5	a.	With a neat diagram explain the types of cloud computing.	10	L2	CO3
	b.	Explain challenges in cloud architecture.	10	L2	CO3
		OR			
Q.6	a.	With a neat diagram explain security aware cloud architecture.	10	L2	CO3
	b.	With a neat diagram explain six layers of cloud services.	10	L2	CO3

		Module – 4			
Q.7	**a.**	With a neat diagram explain surfaces of attacks in a cloud computing environment.	**10**	**L2**	**CO4**
	b.	Define XoaR. Draw and explain components of XoaR.	**10**	**L2**	**CO4**
		OR			
Q.8	**a.**	Write a note on : i) Data integrity and privacy protection ii) Trust Overlay Networks.	**10**	**L1**	**CO4**
	b.	Explain with a neat diagram how data coloring and cloud watermarking is used.	**10**	**L2**	**CO4**
		Module – 5			
Q.9	**a.**	Explain different steps of mapreduce frameworks that are used to run user's program on a distributed computing system.	**10**	**L2**	**CO5**
	b.	Write application classification for parallel and distributed systems.	**10**	**L2**	**CO5**
		OR			
Q.10	**a.**	Explain the following terms : i) Amazon EC2 ii) Amazon S3.	**10**	**L2**	**CO5**
	b.	With a neat diagram explain architecture and components of Aneka.	**10**	**L2**	**CO5**

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