

CBCS SCHEME

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BCS601

Sixth Semester B.E./B.Tech. Degree Examination, June/July 2025

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 critical cluster design issues and feasible implementation.	8	L2	CO2
	b.	Describe VM primitive operations.	6	L2	CO2
	c.	Explain virtual machine with architectures of compared with traditional physical machine.	6	L2	CO1
OR					
Q.2	a.	Explain the following: i) Internet of thing ii) Cyber physical systems iii) Memory storage and wide area networking	2 2 6	L1	CO1
	b.	Explain computing paradigm distinctions.	5	L2	CO2
	c.	Describe the classification of parallel and distributed computing systems.	5	L2	CO2
Module – 2					
Q.3	a.	Explain implementation levels of virtualization.	5	L2	CO2
	b.	Draw architecture of computer before and after virtualization.	5	L3	CO2
	c.	Explain how virtualization support at OS level.	10	L3	CO2
OR					
Q.4	a.	Explain virtualization of CPU/memory and I/O devices.	10	L2	CO3
	b.	Describe virtualization for data center automation.	10	L2	CO2
Module – 3					
Q.5	a.	Explain cloud service models with the diagram.	5	L2	CO2
	b.	Explain cloud deployment models.	5	L2	CO2
	c.	Write a note on public cloud platforms, GAE, AWS and Azure.	10	L2	CO3
1 of 2					

OR

Q.6	a.	Define cloud computing and list the characteristics.	5	L1	CO1
	b.	Write benefits and challenges of each service.	5	L1	CO1
	c.	Write a note on Inter cloud resource management.	10	L3	CO3

Module – 4

Q.7	a.	Summarize cloud data encryption and challenges in data encryption.	8	L2	CO1
	b.	Write a note on cloud security define strategies.	6	L2	CO1
	c.	Explain anomaly detection techniques in cloud.	6	L3	CO3

OR

Q.8	a.	Describe data and software protection techniques.	8	L2	CO2
	b.	Briefly explain reputation-guided protection of data centers.	6	L2	CO1
	c.	Explain access control and identity access management.	6	L1	CO2

Module – 5

Q.9	a.	Write difference between cloud and grid computing.	6	L1	CO2
	b.	Explain the following : i) Server keys computing ii) Edge computing iii) AI/ML in cloud iv) Containerization with Docker and Kubernetes v) Quantum computing in cloud	10	L2	CO2
	c.	Explain AWS services.	4	L2	CO2

OR

Q.10	a.	Explain the features of cloud and grid computing.	10	L1	CO2
	b.	Distinguish between AWS, Azure, GCP, IBM cloud.	6	L3	CO3
	c.	List out best practices for cloud software development.	4	L3	CO3
