

CBCS SCHEME

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BIS613D

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

Cloud Computing and Security

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.	Describe the vision introduced by cloud computing?	06	L2	CO1
	b.	Provide brief characteristics of distributed system with examples?	06	L3	CO1
	c.	What is the major revolution introduced by web 2.0?	08	L2	CO1
OR					
Q.2	a.	Describe the main characteristic of service orientation of cloud computing with examples.	06	L3	CO1
	b.	What is the major distributed computing technology that led to cloud computing.	06	L2	CO1
	c.	Briefly summarize the challenges still open in cloud computing.	08	L1	CO1
Module – 2					
Q.3	a.	What is Xen? Discuss its elements for virtualization.	06	L2	CO2
	b.	Discuss the reference module of full virtualization.	06	L3	CO2
	c.	List and discuss different types of virtualization.	08	L2	CO2
OR					
Q.4	a.	How is cloud development different from traditional software development.	06	L2	CO2
	b.	Discuss the architecture of Hyper – V. Discuss its use in cloud computing.	06	L2	CO2
	c.	Discuss classification on taxonomy of visualization of different levels?	08	L3	CO2
Module – 3					
Q.5	a.	Explain the three primary cloud service models; IaaS PaaS, and SaaS with examples.	06	L2	CO3
	b.	Differentiate between Public, Private and hybrid cloud with advantages and limitation.	06	L3	CO3
	c.	What is a warehouse – scale data center? How does it differ from modular data centers.	08	L2	CO3
OR					
Q.6	a.	Compare the services and target applications of GAE, AWS and Microsoft Azure.	06	L3	CO3
	b.	Describe the fat-free topology and explain its use in data center network architecture.	06	L2	CO3
	c.	Explain the key requirements for an efficient cloud data center interconnection network.	08	L2	CO3

Module – 4

Q.7	a.	What is a trusted Hypervisor? Explain the mobile devices face a range of security challenges?	06	L2	CO4
	b.	Discuss the Security Risks posed by shared images and management os?	06	L2	CO4
	c.	Describe the Hidden Risk in the cloud computing.	08	L3	CO4

OR

Q.8	a.	Explain the best Top 5 Cloud Security Best practices.	06	L2	CO4
	b.	What are the most important advantages of cloud technology for social network.	06	L2	CO4
	c.	Describe the key features of Google?	08	L2	CO4

Module – 5

Q.9	a.	What are the benefits and challenges of using server less computing in the cloud?	06	L2	CO5
	b.	How does grid computing differ from cloud computing.	06	L2	CO5
	c.	What are the key features of cloud computing platforms.	08	L2	CO5

OR

Q.10	a.	How do multi cloud and hybrid cloud strategies differ.	06	L2	CO5
	b.	What is infrastructure as code (IaC) and how if it used in the cloud.	06	L2	CO5
	c.	What are emerging cloud environments.	08	L2	CO5
