

Satyug Darshan Institute of Technology, Faridabad

	Programme: B.Tech	Year:/Semester:7th
	Subject Name : Basics of Cloud Computing	Subject Code: PEC-IT-I-703
	Department: CSE	AY:2025-2026
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Unit -1

Short Questions

S. No.	Questions	Bloom Taxonomy(KL)
Q.No	Question	BT
1	Define Cloud Computing.	KL1
2	Define On Demand Computing.	KL1
3	Define distributed computing.	KL1
4	Describe vendor lock-in.	KL2
5	Describe term multi-tenancy in Cloud.	KL2
6	Define Community Cloud.	KL1
7	Define Hybrid Cloud.	KL1
8	Define Web Services.	KL1
9	Define Authentication. Name its types.	KL1
10	Name any two IaaS providers.	KL1
11	Name any two SaaS providers.	KL1
12	Name any two PaaS providers.	KL1
13	What is elasticity in cloud computing?	KL1
14	List any two benefits of cloud computing.	KL1

Long Questions

1	Explain what do you understand by deployment model in cloud computing. Explain any three deployment models with example.	KL2
2	Explain service models in cloud computing.	KL2

3	Explain cloud computing architecture.	KL2
4	Explain the components of cloud computing architecture with a suitable diagram.	KL2
5	Write down all the characteristics of cloud computing.	KL2
6	Discuss the role of cloud computing in social networking and how cloud computing shapes its future.	KL2
7	Compare cloud computing with traditional computing models.	KL4

Unit -2

Short Questions

S. No.	Questions	Bloom Taxonomy
1	Why is data privacy a major concern in cloud computing?	KL2
2	Discuss the need for cloud security standards.	KL2
3	Name three core capabilities of cloud security.	KL1
4	State the key privacy concerns in the cloud.	KL1
5	Name any two standards for providing information security in cloud.	KL1
6	Define hypervisor.	KL1
7	Name the two types of hypervisors.	KL1

Long Questions

1	Define Hypervisor.Explain its types with diagram and example.	KL1
2	Define virtualization. Explain any two types of virtualization with examples.	KL1
3	Explain CPU virtualization and its types.	KL2
4	List the characteristics of CPU virtualization.	KL2
5	How can virtualization be maintained at different levels in cloud environment?	KL3
6	Explain the SPI framework for cloud computing with diagram.	KL2
7	Explain the SPI framework. How do IaaS, PaaS, and SaaS differ from each other?	KL2
8	Explain the shared responsibility model of security in cloud environment.	KL2
9	Write and explain all the characteristics of cloud environment.	KL2

Unit -3

Short Questions

S. No.	Questions	Bloom Taxonomy
1	What do you understand by elasticity in cloud computing?	
2	Name any two core capabilities of cloud security.	KL1
3	Name any two access control mechanisms used in cloud.	KL1
4	State any two standards for providing information security in cloud.	KL1

5	Write the full form of CSA and CCM.	KL1
6	Define Federated Identity Management (FIM).	KL1
Long Questions		
1	Define Identity and Access Management (IAM). Explain its characteristics and types.	KL2
2	Define IAM in cloud computing. Explain the methods used.	KL2
3	Explain the life cycle of identity with a proper diagram.	KL2
4	Discuss key IAM components and how IAM ensures secure user access to cloud resources.	KL2
5	Explain the three levels of infrastructure security in cloud computing.	KL2
6	Discuss SaaS, PaaS, and IaaS security issues in detail.	KL2
Unit -4		
Short Questions		
S. No.	Questions	Bloom Taxonomy
1	Describe privacy in cloud computing.	KL2
2	State the purpose of data life cycle in cloud privacy.	KL1
3	Discuss compliance with respect to cloud privacy.	KL2
4	Define availability management in cloud services.	KL1
5	Name any two key privacy concerns in cloud computing.	KL1
6	Describe legal compliance in cloud computing.	KL2
7	Discuss regulatory implication of cloud data storage.	KL2
Long Questions		
1	Explain privacy issues in cloud computing and their impact on users.	KL2
2	Explain the data life cycle model and its role in protecting cloud data privacy.	KL2
3	Discuss availability management in SaaS, PaaS, and IaaS models.	KL2
4	Explain privacy risk management and compliance challenges in cloud computing.	KL3
5	Analyze legal and regulatory implications related to cloud privacy and compliance.	KL4
6	Describe Service Oriented Architecture (SOA) and discuss its advantages and disadvantages.	KL2
7	Explain CSP life cycle approach with diagram related to IPC.	KL2
Unit -5		
Short Questions		
S. No.	Questions	Bloom Taxonomy
1	Describe governance in cloud computing?	KL2

2	Discuss risk management in cloud environments?	KL2
3	Describe regulatory compliance in cloud computing?	KL2
4	Describe internal policy compliance	KL2
5	Define cloud auditing.	KL1
6	State the role of CSA in cloud security.	KL1

Long Questions

1	Explain Governance, Risk and Compliance (GRC) framework in cloud computing.	KL2
2	Explain the components of GRC and their significance in cloud security.	KL2
3	Discuss the role of internal and external compliance in cloud environments.	KL2
4	Explain the role of Cloud Security Alliance (CSA) in cloud governance.	KL2
5	Analyze the importance of Security-as-a-Service in ensuring cloud compliance.	KL4

Unit -6

Short Questions

S. No.	Questions	Bloom Taxonomy
1	Define data-intensive computing.	KL1
2	Describe MapReduce programming.	KL2
3	State the role of storage systems in data-intensive computing.	KL1
4	Name any two programming models for data-intensive computing.	KL1
5	Define HDFS.	KL1
6	Define GFS.	KL1

Long Questions

1	Explain data-intensive computing and its challenges.	KL2
2	Explain MapReduce programming model with suitable example.	KL2
3	Describe the architecture of HDFS or GFS in detail.	KL2
4	Explain the role of MapReduce in data-intensive computing.	KL2
5	Compare traditional data processing with data-intensive computing approaches.	KL4