

Unit wise Question Bank

Subject: Cloud Computing(CS4110PE)

Unit-I

S.No	Questions		BT	CO	PO
Part –A(Short Answer Questions)					
1	What is mean by Virtualization Middleware?		L1	CO1	PO1
2	Define datacenter growth and cost breakdown?		L1	CO1	PO1
3	Difference between distributed and parallel computing?		L1	CO1	PO1
4	List the design issues in clusters?		L1	CO1	PO1
5	Define peer-to-peer network?		L1	CO1	PO1
6	What is mean by service oriented architecture?		L1	CO1	PO1
7	Define anything-as-a-service?		L1	CO1	PO1
8	What is mean by SaaS?		L3	CO1	PO1
9	What is mean by IaaS?		L1	CO1	PO1
Part– B(Long Answer Questions)					
11	a)	Explain HPC Technology?	L2	CO1	PO1
	b)	Explain Cluster Computing model in detail?	L2	CO1	PO1
12	a)	Explain the Cluster Architecture in detail?	L2	CO1	PO1
	b)	Explain the infrastructure of Grid computing in detail?	L6	CO1	PO1
13	a)	Explain the architecture of Optical Computation system?	L2	CO1	PO1
	b)	Explain the cloud computing service models?	L1	CO1	PO1
15	a)	Explain the NIST cloud computing reference architecture?	L2	CO1	PO1
	b)	Explain the cloud eco system?	L2	CO1	PO1
16	a)	Explain QuantumComputation.	L1	CO1	PO1
	b)	Explain parellel and distributed models in detail?	L1	CO1	PO1

Unit-II

S.No	Questions		BT	CO	PO
Part –A(Short Answer Questions)					
1	Explain Instruction Set Architecture level of virtualization?		L1	CO1	PO1
2	Explain hardware abstraction level of virtualization?		L1	CO1	PO1
3	Explain operating system level of virtualization?		L1	CO1	PO1
4	Explain library support level of virtualization?		L1	CO1	PO1
5	Explain user application level of virtualization?		L1	CO1	PO1
6	Write the relative merits of virtualization at various levels?		L1	CO1	PO1
7	List the requirements of VMM?		L1	CO1	PO1
8	Differentiate full virtualization and para-virtualization?		L3	CO1	PO1
9	What are the responsibilities of VMM?		L1	CO1	PO1
Part– B(Long Answer Questions)					
11	a)	Explain the different types of virtualization in detail?	L2	CO1	PO1
	b)	Explain the virtualization of CPU, Memory and I/O devices?	L2	CO1	PO1
12	a)	Explain the virtualization of multi core processor?	L2	CO1	PO1
	b)	How do you manage the resources in virtual environment?	L6	CO1	PO1
13	a)	Explain the virtual clusters in detail?	L2	CO1	PO1
	b)	You do you migrate memory, files, and network resources?	L1	CO1	PO1

15	a)	Explain the concept dynamic deployment of virtual clusters?	L2	CO1	PO1
	b)	Explain the virtualization for data center automation?	L2	CO1	PO1
16	a)	Explain the trust management in virtual clusters?	L1	CO1	PO1
	b)	Explain the different types of virtualization in detail?	L1	CO1	PO1

Unit-III

S.No	Questions		BT	CO	PO
Part –A(Short Answer Questions)					
1	List the design goals for generic cloud?		L1	CO1	PO1
2	List the cloud enabling technologies?		L1	CO1	PO1
3	Explain the QoS factors in cloud?		L1	CO1	PO1
4	Define hardware virtualization?		L1	CO1	PO1
5	Explain the storage virtualization?		L1	CO1	PO1
6	Define VM cloning?		L1	CO1	PO1
7	Explain runtime support service?		L1	CO1	PO1
8	List the design goals for generic cloud?		L3	CO1	PO1
9	Define dynamic resource deployment?		L1	CO1	PO1
Part– B(Long Answer Questions)					
11	a)	Explain the cloud architecture with suitable block diagram?	L2	CO1	PO1
	b)	Explain the layered cloud architecture development?	L2	CO1	PO1
12	a)	Explain the virtualization support and disaster recovery?	L2	CO1	PO1
	b)	Explain the architectural design challenges?	L6	CO1	PO1
13	a)	Explain the cloud service tasks and trends?	L2	CO1	PO1
	b)	Explain the different methods of resource provisioning ?	L1	CO1	PO1
15	a)	Explain the platform deployment in detail?	L2	CO1	PO1
	b)	Explain the provisioning of storage resources in detail?	L2	CO1	PO1
16	a)	Explain the cloud architecture with suitable block diagram?	L1	CO1	PO1
	b)	Explain the layered cloud architecture development?	L1	CO1	PO1

Unit-IV

S.No	Questions	BT	CO	PO
Part –A(Short AnswerQuestions)				
1	Define HDFS?	L1	CO1	PO1
2	List the characteristics of HDFS?	L1	CO1	PO1
3	Explain the HDFS operations?	L1	CO1	PO1
4	Define block replication?	L1	CO1	PO1
5	Define heart beat in Hadoop? What are the advantages of heart beat?	L1	CO1	PO1
6	Define GFS?	L1	CO1	PO1
7	Define BigTable?	L1	CO1	PO1
8	What is mean by NOSQL?	L3	CO1	PO1
9	Explain the Google’s distributed lock service?	L1	CO1	PO1

Part– B(Long Answer Questions)					
11	a)	Explain the architecture of MapReduce in Hadoop?	L2	CO1	PO1
	b)	Explain the programming the Google App Engine?	L2	CO1	PO1
12	a)	Explain the Architecture of Google File System?	L2	CO1	PO1
	b)	Explain the structure of BigTable data model?	L6	CO1	PO1
13	a)	Explain the programming on Amazon EC2?	L2	CO1	PO1
	b)	Explain the architecture of Amazon EC2 ?	L1	CO1	PO1
15	a)	Explain the Microsoft Azure programming support?	L2	CO1	PO1
	b)	Explain the architecture of MapReduce in Hadoop?	L2	CO1	PO1
16	a)	Explain the programming the Google App Engine?	L1	CO1	PO1
	b)	Explain the Architecture of Google File System?	L1	CO1	PO1

Unit-V

	Questions		BT	CO	PO
Part –A(Short Answer Questions)					
1	Explain the security awareness in cloud?		L1	CO1	PO1
2	Define third party risk management?		L1	CO1	PO1
3	What are the layers in security architecture design?		L1	CO1	PO1
4	Define VM security?		L1	CO1	PO1
5	Explain change management?		L1	CO1	PO1
6	Define data privacy?		L1	CO1	PO1
7	Define security images?		L1	CO1	PO1
8	What is mean by vulnerability assessment?		L3	CO1	PO1
9	Explain the security awareness in cloud?		L1	CO1	PO1
Part– B(Long Answer Questions)					
11	a)	Explain the Security challenges in cloud computing in detail?	L2	CO1	PO1
	b)	Explain the security architecture in detail?	L2	CO1	PO1
12	a)	Explain the following	L2	CO1	PO1
	b)	Security governance	L6	CO1	PO1
13	a)	Security monitoring	L2	CO1	PO1
	b)	Risk management	L1	CO1	PO1
15	a)	Explain the Secure Software Development Life Cycle?	L2	CO1	PO1
	b)	Explain in detail about Software-as-a-Service security?	L2	CO1	PO1
16	a)	Explain the application security in detail?	L1	CO1	PO1
	b)	Explain the data security and virtual machine security in detail?	L1	CO1	PO1