



**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**

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QUESTION BANK (DESCRIPTIVE)

Subject with Code: Introduction to Cloud Computing (20CS1201) **Course & Branch:** III B.Tech - CCC

Year & Sem: Regulation: III Year & I Semester (R20)

**UNIT –I
INTRODUCTION**

1		Explain in detail evolution of distributed computing	[L2][CO1]	[12M]
2	a	Differentiate between parallel and distributed computing Paradigms.	[L4][CO1]	[4M]
	b	Illustrate the evolution of scalable computing technology	[L3][CO1]	[8M]
3		List and discuss the technology for network based system	[L1][CO1]	[12M]
4	a	Define cluster computing	[L1][CO1]	[2M]
	b	Discuss in detail about clusters of cooperative computers with neat diagram	[L2][CO1]	[10M]
5	a	Define grid computing	[L1][CO1]	[2M]
	b	Explain layered architecture of grid	[L2][CO1]	[10M]
6	a	Discuss the following i) computational grid ii) data grid iii) network grid	[L2][CO1]	[6M]
	b	List and detail the elements of grid	[L1][CO1]	[6M]
7	a	What is SOA? Describe with its architecture	[L2][CO1]	[6M]
	b	Explain the Cloud Computing Stack	[L2][CO1]	[6M]
8		State and Explain various characteristics of cloud computing.	[L1][CO1]	[12M]
9		Discriminate the Challenges in Cloud Computing.	[L5][CO1]	[12M]
10	a	Define Cloud Computing	[L1][CO1]	[2M]
	b	Draw and explain the cloud architecture	[L2][CO1]	[10M]

UNIT –II
SERVICE DELIVERY AND DEPLOYMENT MODELS

1	a	Define cloud computing.	[L1][CO2]	[2M]
	b	Explain in detail about XaaS.	[L2][CO2]	[10M]
2		Define service model. Determine the service models in cloud computing.	[L3][CO2]	[12M]
3	a	Illustrate in detail Infrastructure as a Service.	[L3][CO2]	[4M]
	b	Describe in detail about PaaS.	[L2][CO2]	[4M]
	c	Explain in detail about SaaS.	[L2][CO2]	[4M]
4		Compare the IaaS and PaaS and SaaS	[L4][CO2]	[12M]
5		Explain Briefly about Deployment Models.	[L2][CO2]	[12M]
6	a	Analyze the Public Cloud and Private Cloud.	[L4][CO2]	[6M]
	b	Write Short note on Hybrid Cloud.	[L1][CO2]	[6M]
7	a	Express Pros in Cloud Computing.	[L2][CO2]	[6M]
	b	Analyze Cons in Cloud Computing.	[L4][CO2]	[6M]
8	a	Recall a short note on SLA	[L1][CO2]	[6M]
	b	Explain briefly about types of SLA.	[L2][CO2]	[6M]
9		Illustrate the Life Cycle of Service Level Agreement with neat diagram	[L3][CO2]	[12M]
10	a	Why SLA is important in cloud computing. Express your opinion.	[L4][CO2]	[6M]
	b	Identify the Approaches in SLA Management	[L2][CO2]	[6M]

UNIT –III
VIRTUALIZATION AS FOUNDATION OF CLOUD

1	a	What do you understand by Virtualization	[L1][CO3]	[4M]
	b	Explain in detail different implementation level of virtualization	[L2][CO3]	[8M]
2		Illustrate the virtualization structures available with neat diagram	[L3][CO3]	[12M]
3	a	Explain in detail types of virtualization available	[L2][CO3]	[8M]
	b	List out the benefits of Virtualization	[L1][CO3]	[4M]
4		Compare and explain full virtualization and para virtualization.	[L4][CO3]	[12M]
5	a	Illustrate Hypervisor	[L5][CO3]	[6M]
	b	Discriminate the Binary Translation with Full Virtualization	[L4][CO3]	[6M]
6		Describe the CPU Virtualization in detail.	[L2][CO3]	[12M]
7	a	Summarize the Memory Virtualization concept	[L2][CO3]	[6M]
	b	Illustrate I/O Virtualization with an example	[L3][CO3]	[6M]
8	a	Describe virtual clusters with its advantages	[L2][CO3]	[6M]
	b	Explain the resource management in virtual clusters	[L2][CO3]	[6M]
9		Analyse the virtualization for data center automation.	[L4][CO3]	[12M]
10	a	What do you understand by Migrating Applications to Cloud	[L1][CO4]	[4M]
	b	Interpret Live VM Migration Steps and Performance Effects	[L3][CO4]	[8M]

UNIT –IV
CLOUD INFRASTRUCTURE SECURITY

1		Explain Multi-tenancy using cloud	[L4][CO4]	[12M]
2		What is Multi Schema Approach?	[L2][CO4]	[12M]
3		Describe Multi Entity Support?	[L2][CO4]	[12M]
4		Briefly Explain Relational Database in cloud?	[L4][CO4]	[12M]
5		Explain GFS in Cloud based system?	[L2][CO4]	[12M]
6		Explain HDFS in Cloud based system?	[L4][CO4]	[12M]
7		Briefly Explain Cloud Data Storage?	[L2][CO4]	[12M]
8		Differences between HFS and HDFS?	[L2][CO4]	[12M]
9	a	Explain the concept Bigtable?	[L4][CO4]	[6M]
	b	Explain the concept HBase?	[L4][CO4]	[6M]
10		Describe Simple DB in Cloud?	[L2][CO4]	[12M]

UNIT –V
MOBILE CLOUD COMPUTING

1	a	Explain about Authentication Methods	[L2][CO5]	[6M]
	b	Interpret the various Authorization Methods	[L3][CO5]	[6M]
2		Summarize the details on cloud infrastructure security	[L2][CO5]	[12M]
3		Discuss the following in detail: a) Network Level Security b) Host Level Security c) Application Level Security	[L2][CO5]	[12M]
4		Compare the Network, Host and Application Level of security	[L4][CO5]	[12M]
5		List and describe the common types of attacks happen in Network, Host and Application Levels	[L2][CO5]	[12M]
6	a	Analyze the aspects of data security	[L4][CO5]	[6M]
	b	Explain about provider data and its security	[L2][CO5]	[6M]
7	a	Describe the Life cycle of identity management	[L2][CO5]	[6M]
	b	List and Explain the activities supported by IAM	[L1][CO5]	[6M]
8		Describe in detail about the IAM architecture with neat diagram	[L2][CO5]	[12M]
9	a	List the various factors on which availability of services depend	[L1][CO5]	[4M]
	b	Illustrate in detail about the availability management on different cloud services.	[L3][CO5]	[8M]
10		Explain the key issues in the cloud	[L2][CO5]	[12M]