

**SIDDARTHA INSTITUTE OF SCIENCE AND TECHNOLOGY:: PUTTUR
(AUTONOMOUS)**

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QUESTION BANK (DESCRIPTIVE)

Subject with Code: Cloud Computing (19CS0529)

Course & Branch: IV B.Tech - CSE

Year & Sem: Regulation: IV Year & I Semester (R19)

**UNIT –I
INTRODUCTION**

1	a	Demonstrate in detail about Scalable computing over the Internet	[L2][CO1]	[6M]
	b	Discuss the various Distributed System Design objectives.	[L2][CO1]	[6M]
2	a	Illustrate in detail about the GPU Programming Model with necessary diagrams.	[L3][CO1]	[6M]
	b	Describe in detail about the Technologies for network based systems?	[L2][CO1]	[6M]
3	a	What is Virtual Machine? What are the VM Primitive Operations? Explain it with appropriate diagrams.	[L1][CO1]	[6M]
	b	Differentiate SAN and WAN.	[L4][CO1]	[6M]
4	a	Explain the variation between multi-tasking, multi-threading and Virtualization.	[L2][CO1]	[6M]
	b	Explain the need of virtual machine?	[L2][CO1]	[6M]
5	a	Differentiate between parallel and distributed computing Paradigms.	[L4][CO1]	[6M]
	b	Explain in detail about Grid Architecture and standards	[L2][CO1]	[6M]
6		Explain system models for distributed and cloud computing.	[L2][CO1]	[12M]
7	a	Differentiate SAN with WAN.	[L4][CO1]	[4M]
	b	State and Explain various characteristics of cloud computing.	[L1][CO1]	[8M]
8	a	Explain in detail about Multicore CPUs and Multithreading Technologies	[L2][CO1]	[6M]
	b	Discuss in detail about clusters of cooperative computers.	[L2][CO1]	[6M]
9	a	Explain in detail about Data Center Virtualization for Cloud Computing.	[L2][CO1]	[6M]
	b	Outline Challenges in Cloud Computing.	[L2][CO1]	[6M]
10	a	Explain in detail about service oriented architecture.	[L2][CO1]	[6M]
	b	Summaries various challenges of cloud computing?	[L2][CO1]	[6M]

UNIT –II
SERVICE DELIVERY AND DEPLOYMENT MODELS

1	a	Explain briefly about Xaas.	[L2][CO2]	[6M]
	b	Define service Model. Determine the Service Model.	[L1][CO2]	[6M]
2	a	Demonstrate in detail about Paas.	[L2][CO2]	[6M]
	b	Differentiate between Iaas And Saas.	[L4][CO2]	[6M]
3	a	Write Short notes on Software as a Service.	[L1][CO2]	[6M]
	b	Differences between Infrastructure as a Service and Platform as a Service.	[L2][CO2]	[6M]
4	a	Explain Briefly about Deployment Models.	[L2][CO2]	[6M]
	b	Elaborate the concept of SLA Management.	[L2][CO2]	[6M]
5	a	Analyze the Public Cloud and Private Cloud.	[L4][CO2]	[6M]
	b	Write Short note on Hybrid Cloud.	[L1][CO2]	[6M]
6	a	Express Pros in Cloud Computing.	[L2][CO2]	[6M]
	b	Analyze Cons in Cloud Computing.	[L4][CO2]	[6M]
7	a	Explain briefly about types of SLA.	[L2][CO2]	[6M]
	b	Importance about Life Cycle of Service Level Agreement.	[L5][CO2]	[6M]
8	a	Why SLA is important in cloud computing. Express your opinion.	[L4][CO2]	[6M]
	b	Outline the importance of Hybrid Cloud?	[L5][CO2]	[6M]
9	a	Write Short Notes on SLA Management?	[L1][CO2]	[6M]
	b	Compare the Iaas and Pass and Saas?	[L4][CO2]	[6M]
10	a	What are Hybrid Cloud and SLA Management? Explain it in detail.	[L6][CO2]	[6M]
	b	Identify the Approaches in SLA Management?	[L1][CO2]	[6M]

UNIT –III
VIRTUALIZATION AS FOUNDATION OF CLOUD

1	a	Explain the levels of virtualization implementation.	[L2][CO1]	[6M]
	b	Write a note on Virtualization support at the OS level	[L1][CO1]	[6M]
2	a	Illustrate Hypervisor and Xen Architecture	[L3][CO3]	[6M]
	b	Discriminate the Binary Translation with Full Virtualization	[L4][CO3]	[6M]
3	a	Analyze the Hardware Support for Virtualization	[L4][CO4]	[6M]
	b	Elaborate the CPU Virtualization in detail.	[L2][CO4]	[6M]
4	a	Summarize the Memory Virtualization concept	[L5][CO5]	[6M]
	b	Illustrate I/O Virtualization with an example	[L3][CO3]	[6M]
5		Interpret Live VM Migration Steps and Performance Effects	[L2][CO4]	[12M]
6	a	Classify Physical and Virtual Clusters	[L2][CO3]	[6M]
	b	Write a note on Virtualization in Multi-Core Processors	[L1][CO3]	[6M]
7		Explain the Migration of Memory , File System and Network Resources	[L4][CO3]	[12M]
8	a	Design the Dynamic Deployment of Virtual Clusters	[L5][CO3]	[6M]
	b	Discuss Server Consolidation in Data Centers	[L2][CO4]	[6M]
9	a	Evaluate the Virtual Storage Management	[L5][CO5]	[12M]
10	b	Construct the Trust Management in Virtualized Data Centers	[L6][CO6]	[12M]

UNIT –IV
CLOUD INFRASTRUCTURE SECURITY

1	a	Explain about Authorization Methods?	[L2][CO6]	[6M]
	b	What are the services provided by IAM?	[L1][CO6]	[6M]
2	a	Explain about Authentication Methods?	[L2][CO6]	[8M]
	b	Discuss about components of IAM.	[L2][CO6]	[4M]
3	a	Compare Authorization Methods and Authentication Methods?	[L4][CO6]	[4M]
	b	Explain about Identity and Access Management Architecture?	[L2][CO6]	[8M]
4	a	Write about Infrastructure Security.	[L1][CO6]	[8M]
	b	Identify the cloud security principles?	[L1][CO6]	[4M]
5	a	Explain the Network level, Host level and the Application level	[L2][CO6]	[6M]
	b	List out the common cloud risks?	[L1][CO6]	[6M]
6	a	List out the IAM practices in the cloud?	[L1][CO6]	[6M]
	b	Compare the Network, Host and Application Levels.	[L4][CO6]	[6M]
7	a	Analyze the challenges in data security?	[L4][CO6]	[4M]
	b	Identify the cloud computing threats to data security?	[L1][CO6]	[8M]
8	a	Compare and contrast SaaS, PaaS and IaaS.	[L4][CO6]	[6M]
	b	Discuss aspects of data security.	[L2][CO6]	[6M]
9	a	Describe content level security pros?	[L2][CO6]	[6M]
	b	Describe content level security cons?	[L2][CO6]	[6M]
10	a	Explain the key issues in the cloud?	[L2][CO6]	[8M]
	b	Who are cloud service providers?	[L2][CO6]	[4M]

UNIT –V
MOBILE CLOUD COMPUTING

1	a	Examine the Architecture of mobile cloud computing?	[L3][CO6]	[8M]
	b	Compare mobile computing and cloud computing?	[L4][CO6]	[4M]
2	a	Explain about Benefits of mobile cloud computing?	[L2][CO6]	[6M]
	b	Write about data access in mobile cloud computing.	[L1][CO6]	[6M]
3	a	Analyze the challenges of mobile cloud computing in detail.	[L4][CO6]	[6M]
	b	Describe about personal data storage on mobile cloud?	[L1][CO6]	[6M]
4	a	Explain about the types of issues in mobile computing.	[L2][CO6]	[6M]
	b	Write about Cloudlet deployment in MCC?	[L1][CO6]	[6M]
5	a	Discuss about security for mobile user with privacy.	[L2][CO6]	[6M]
	b	List out the supporting performance at service level and cloud API?	[L1][CO6]	[6M]
6		Explain about general security in mobile cloud computing?	[L2][CO6]	[12M]
7	a	List out the applications of mobile cloud computing?	[L1][CO6]	[6M]
	b	What is data portability and data interoperability?	[L1][CO6]	[6M]
8	a	List out the motivation behind the usage of Mobile Cloud Computing?	[L1][CO6]	[6M]
	b	Identify the approaches in mobile augmentation.	[L1][CO6]	[6M]
9	a	Write about incentives in MCC?	[L1][CO6]	[6M]
	b	What is energy efficiency and business model in MCC?	[L1][CO6]	[6M]
10	a	Explain in brief about fault tolerance and cost benefit analysis?	[L2][CO6]	[6M]
	b	What is hardware approaches and software approaches in MCC?	[L1][CO6]	[6M]