

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



**QUESTION BANK (DESCRIPTIVE)**

**Subject with Code: Cloud Computing (20CS0537)**

**Course & Branch: B.Tech - CSE**

**Year & Sem: Regulation: IV Year & I Semester (R20)**

**UNIT –I**

**INTRODUCTION**

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

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

## UNIT –IV

## CLOUD INFRASTRUCTURE SECURITY

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]

**UNIT –V**  
**MOBILE CLOUD COMPUTING**

<b>1</b>	<b>a</b>	State the mobile cloud computing definitions by MCC Forum and NIST	[L1][CO6]	[4M]
	<b>b</b>	Illustrate a typical mobile cloud computing environment	[L2][CO6]	[8M]
<b>2</b>	<b>a</b>	Give the factors that promote the adoption of MCC	[L2][CO6]	[6M]
	<b>b</b>	State the Characteristics of Mobile Cloud Computing Application	[L1][CO6]	[6M]
<b>3</b>		Differentiate Cloud computing and Mobile cloud computing	[L4][CO6]	[12M]
<b>4</b>		Draw the Architecture of mobile cloud computing and explain	[L1][CO6]	[12M]
<b>5</b>	<b>a</b>	List and describe Benefits of mobile cloud computing	[L1][CO6]	[12M]
	<b>b</b>	Discuss the context management architecture based on IRNA with neat diagram	[L2][CO6]	[6M]
<b>6</b>		Analyze the challenges of mobile cloud computing at mobile end in detail.	[L4][CO6]	[12M]
<b>7</b>		Explain the challenges of MCC at cloud end	[L2][CO6]	[12M]
<b>8</b>		Describe the following: a) Offloading in static environment b) Offloading in dynamic environment	[L2][CO6]	[12M]
<b>9</b>	<b>a</b>	What do Partitioning Strategies mean? How is ADPS implemented for Program partitioning	[L1][CO6]	[6M]
	<b>b</b>	Explain about general security in mobile cloud computing	[L2][CO6]	[6M]
<b>10</b>	<b>a</b>	List out the applications of mobile cloud computing	[L1][CO6]	[6M]
	<b>b</b>	Identify few of the open issues still need to be addressed in MCC	[L1][CO6]	[6M]