P.V.P SIDDHARTHA INSTITUTE OF TECHNOLOGY	
Branch: Computer Science and Engineering	**Regulation: PVP20**
Course: B.Tech	**Subject: Cloud Computing**
Subject Code: 20CS4701C	**Year and Semester: IV & I**
Question Bank	

Course Outcomes		
Upon Successful completion of the course, the student will be able to		
CO1	Understand the basic concepts of virtualization and Cloud Computing.	L2
CO2	Apply cloud computing framework to build and deploy customized applications	L3
CO3	Analyze the given application and choose a suitable platform for deploying the cloud.	L4

Sno	Unit	CO	Level	Max Marks
UNIT I				
1	Discuss the 21st Vision of Computing along with the technologies and properties that tried to fulfil the vision.	1	L2	14
2	Give NIST the Definition of Cloud Computing along with the 5 essential characteristics and models.	1	L1	14
3	Discuss the challenges of Cloud Computing	1	L2	14
4	Discuss the advantages and disadvantages of Cloud Computing	1	L1	14
5	Explain Distributed, Cluster, and Grid Computing. Give the models of Grid Computing.	1	L2	14
7	Explain types of Virtualizations with examples	1	L2	14
8	How is virtualization useful in Cloud Computing	1	L2	14
9	Discuss the advantages and disadvantages of virtualization	1	L2	14
10	Discuss Para virtualization with Xen	1	L2	14
11	Discuss using VMWare as Full Virtualization	1	L2	14
12	Discuss Microsoft Hyper-V	1	L2	14
UNIT II				
1	With the help of a neat Diagram Discuss the Architecture of Cloud Computing	1	L1	14
2	Discuss the Layers of Cloud Computing in detail	1	L2	14
3	Explain different services provided by cloud computing with examples.	1	L2	14
4	Discuss Hardware as a service in cloud computing along with the advantages and disadvantages	3	L2	14
5	Discuss the Platform as a service in cloud computing along with the advantages and disadvantages	3	L2	14
6	Discuss Software as a Service along with the advantages and disadvantages	3	L2	14
7	Compare and contrast IaaS, PaaS, and SaaS in terms of control of the organization and service provider	3	L4	14

8	Give Five examples of services with a brief description for IaaS, PaaS and SaaS.	3	L4	14
9	Compare and contrast Private Cloud and Public Cloud along with their advantages and disadvantages	3	L4	14
10	Compare and contrast Public Cloud and Community Cloud along with their applications	3	L4	14
UNIT III				
1	Explain the layers of the Aneka framework in detail along with a diagram	2	L2	14
2	Discuss the features of Aneka as a platform for cloud applications	2	L2	14
3	What is Aneka Container? Discuss the Classification of Container	2	L3	14
4	Discuss the functions performed under Fabric Services by the Aneka framework	2	L3	14
5	What are the Foundation Services provided by the Aneka framework	2	L2	14
6	Discuss the Application Services of the Aneka Framework	2	L2	14
7	With a Diagram representation, provide an overview of Aneka Cloud from an Infrastructure point of view.	2	L2	14
8	Design a sample logical organization scenario to use a master-worker configuration with separate nodes for storage in Aneka	3	L4	14
9	Design a sample, Private Cloud deployment with Aneka	3	L4	14
10	Propose a sample Public Cloud Deployment with Aneka	3	L4	14
11	Propose a sample Hybrid Cloud Deployment with Aneka	3	L4	14
UNIT IV				
1	Discuss any three Areas with any 3 Applications in each area where Cloud Computing is being utilized.	2	L3	14
2	Discuss how Cloud Computing can be used in Scientific Applications with examples	3	L4	14
3	Explore how Cloud Computing can be useful in Healthcare Applications	3	L4	14
4	Discuss the usage of Cloud Computing in Geoscience Applications	3	L4	14
5	Discuss the usage of Cloud Computing in Business Applications	3	L4	14
6	Discuss the Usage of Cloud Computing in Consumer Applications	3	L4	14
7	Discuss the usage of Cloud Computing in Social Networking	3	L4	14
8	Discuss the usage of Cloud Computing in Media Applications	3	L4	14
9	Discuss the usage of Cloud Computing in Gaming Applications	3	L4	14
10	Discuss the usage of Cloud Computing in Education	3	L4	14
UNIT V				
1	Discuss the Services and Features of AWS	1	L2	14
2	Discuss the Services and Features of Google Cloud	1	L2	14
3	Discuss the services and features of Microsoft Azure	1	L2	14
4	Compare the Storage Services of Amazon, Google and Azure Cloud	1	L4	14
5	Discuss the Google App Engine Architecture and its core components	1	L2	14
6	Compare the compute services offered by Aws, Google Cloud, and Azure	3	L4	14

7	Compare the Cost models of AWS, Google Cloud, and Azure	3	L4	14
8	Name different services of Aws along with a brief description	3	L4	14
9	Discuss the job roles and description of the skills that are in demand under Cloud Computing	3	L4	14
10	List out the different Cloud Service providers in the Industry across the world with their share in the market and services offered by them	3	L4	14

Course Coordinator **HOD**

Dr P Sai Kiran