MALLA REDDY UNIVERSITY

Department of Computer Science and Engineering

Subject Name: Cloud Computing

Subject Code: MR22-1CS0108

Year & Semester: III-II

Unit-Wise Question Bank

Q.No	Question	Marks	Section	UNIT
1	Define cloud computing. Write about the characteristics of cloud computing?	8	Section-I	1
2	What are the different cloud deployment models? Explain how they differ from each other?	8	Section-I	1
3	Explain about cloud computing architecture & its components and services.	8	Section-I	1
4	Define cloud networking. Explain how networking plays an important role in various aspects of cloud computing?	8	Section-I	1
5	Characterize the following three cloud computing models: (a) What is an IaaS (Infrastructure-as-a-Service) cloud? (b) What is PaaS (Platform-as-a-Service) cloud? (c) What is SaaS (Software-as-a-Service) cloud? Give each one example.	8	Section-I	1
6	What is Multitenancy in cloud computing? Write a short note on its advantages & dis-advantages.	8	Section-I	1
7	Explain Type-1 & Type-2 Hypervisors in detail.	8	Section-I	1
8	Discuss the features of KVM Hypervisor and VMware Hypervisor.	8	Section-I	1
9	Explain the differences between full-virtualization and para-virtualization and give one example VMM (virtual machine monitor), that was built in each of the two categories.	8	Section-I	1
10	Explain different types of virtualizations and describe each in detail.	8	Section-I	1
11	What are the three ways to interact with AWS?	8	Section-II	2
12	List and explain the components that make up the AWS Global Infrastructure.	8	Section-II	2
13	Explain various Service categories of AWS with Examples.	8	Section-II	2
14	What is AMI (Amazon Machine Image) in AWS? Explain Key Terminology associated with AWS AMI.	8	Section-II	2
15	Define AWS EC2 Volumes and Snapshots and how do Snapshots work?	8	Section-II	2
16	Differentiate Backup with Snapshot and explain the benefits of AWS Snapshot.	8	Section-II	2
17	Discuss the steps involved in creating an EC2 instance with Microsoft Windows in AWS account.	8	Section-II	2
18	Discuss the steps involved in creating a Snapshot from a specific Volume in AWS account.	8	Section-II	2

19	How to achieve the Durability in AWS S3 Service? Write about AWS S3 Redundancy.	8	Section-II	2
20	What is Amazon S3 & S3 Versioning? How it is used? Explain its features with advantages.	8	Section-II	2
21	What are the types of EBS volumes? Explain each in detail.	8	Section-III	3
22	Discuss the steps to create, attach and mount the volume to an instance.	8	Section-III	3
23	Explain in detail about the Network Basics.	8	Section-III	3
24	What is Amazon VPC? Discuss the various components of VPC in detail	8	Section-III	3
25	Write short note on a) Network address translation (NAT) gateway b) AWS Site-to-Site VPN c) AWS Direct Connect	8	Section- III	3
26	Brief the following VPC Networking a) Internet gateway b) VPC sharing c) VPC peering	8	Section- III	3
27	List and explain the various VPC securities in AWS.	8	Section- III	3
28	Write about Route 53 and discuss the working of Route 53 with neat diagram.	8	Section- III	3
29	Discuss on Different routing Policies in Route 53.	8	Section- III	3
30	What is Amazon Cloud Front? Explain the working of the Cloud Front in detail with its benefit.	8	Section-III	3
31	What is Azure Regions & Availability Zone, and why are they important for selecting where to deploy resources in Microsoft Azure?	8	Section-IV	4
32	What are some key features of the Microsoft Azure Portal, and how does it help users manage their cloud resources?	8	Section-IV	4
33	Can you list and briefly describe 8 major Azure services that are available through the Microsoft Azure platform?	8	Section-IV	4
34	What is a Virtual Machine (VM) in Azure, and how does it provide compute resources for applications and services?	8	Section-IV	4
35	How many types of Virtual Machines available in Microsoft Azure and explain each in brief.	8	Section-IV	4
36	What is Microsoft Azure Storage? List the types of Storage available in Azure. Write short notes on Azure Queue Storage.	8	Section-IV	4
37	Explain in detail about Blob Storage and its types.	8	Section-IV	4
38	Write short notes on a. Azure File Storage. b. Table Storage in detail.	8	Section- IV	4
39	Discuss about Azure Managed and Unmanaged Disk Storage in detail with its features.	8	Section- IV	4
40	Give key differences between Blob, File, and Disk Storage in Azure.	8	Section- IV	4
41	What is Database-as-a-Service? Explain the different types of Azure Database Services.	8	Section-V	5
42	Describe in detail about the Data Warehouse-as-a Service provided by Microsoft Azure.	8	Section-V	5
43	State Azure Cosmos DB. Illustrate the Cosmos DB database design in detail.	8	Section-V	5
44	Explain how Azure Cosmos DB normalizes the cost of all database operations using Request Units?	8	Section-V	5

45	State Partition key. Discuss the two types of partitions in Cosmos DB.	8	Section-V	5
46	What are the key principles and strategies for selecting a partition key in Azure Cosmos DB.	8	Section-V	5
47	What are the Query types supported across different Cosmos DB APIs? Explain each with example.	8	Section-V	5
48	How would you justify the Azure Virtual Network empowers secure communication among Azure services.	8	Section-V	5
49	Explain how Azure Traffic Manager allows you to regulate the distribution of user's network traffic by using DNS. Discuss the features of Azure Traffic Manager.	8	Section-V	5
50	List and explain the six traffic-routing methods of Azure Traffic Manager.	8	Section-V	5