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Course Code	22CS/AI/CA61
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Sixth Semester B.E. Degree Examinations, June/July 2025

CLOUD COMPUTING WITH AWS

(Common to CSE, AIML, CSE- AI)

Duration: 3 hrs

Max. Marks: 100

Note: 1. Answer any FIVE full questions choosing ONE full Question from each Module.
 2. Missing data, if any, may be suitably assumed

<u>Q. No</u>	<u>Question</u>	<u>Marks</u>	<u>(RBTL:CO:PI)</u>
<u>Module-1</u>			
1.	a. Analyze the scalability mechanisms within cloud computing that address fluctuating resource requirements.	10	(4:1:4.1.1)
	b. Analyze the factors that influence the choice of a particular cloud deployment model.	10	(4:1:4.1.2)
(OR)			
2.	a. Examine how traditional data centre infrastructure poses difficulties for modern IT needs.	10	(3:1: 1.2.3)
	b. Illustrate the ways in which consolidated billing simplifies account management when dealing with numerous accounts.	10	(3:1: 1.2.3)
<u>Module-2</u>			
3.	a. Explain the steps required in creating an AWS account.	10	(2:2: 1.2.1)
	b. Outline the techniques used in securing an AWS account.	10	(2:2: 1.2.3)
(OR)			
4.	a. Explain the service quotas and usage limits imposed by AWS free tier.	10	(2:2: 1.2.2)
	b. Discuss how AWS regions and availability zones provide fault tolerance and high availability.	10	(2:2: 1.2.1)
<u>Module-3</u>			
5.	a. Discuss on IAM users, roles, and groups in AWS based on their functionality.	10	(2:3: 1.2.2)
	b. Describe how any two core AWS services can be used in an application.	10	(2:3: 1.2.2)
(OR)			
6.	a. Illustrate the IAM policy that grants an application to access AWS S3.	10	(3:3: 1.2.2)
	b. Examine the important concepts around AWS identity and access management.	10	(3:3: 1.2.2)
<u>Module-4</u>			
7.	a. Compare the S3 intelligent-tiering storage class with other S3 storage classes along with cost and performance.	10	(2:4: 1.2.3)

Note: (RBTL - Revised Bloom's Taxonomy Level: CO - Course Outcome: PI- Performance Indicator)

- b. Explain the three types of glacier for different access in AWS storage class. **10** **(2:4: 1.2.3)**

(OR)

8. a. Illustrate the working of AWS VPC, private and public subnet with a neat diagram. **07** **(3:4: 1.2.3)**
- b. Demonstrate the internet gateway configuration that permits for the subnet's traffic to the Internet. **07** **(3:4:1.2.3)**
- c. Demonstrate the Network Address Translation (NAT) using the NAT gateway in the AWS environment, allowing the internet access for the private IP subnet. **06** **(3:4: 1.2.3)**

Module-5

9. a. Describe the components of Amazon EC2 Instance. **10** **(2:5: 1.2.2)**
- b. Outline on the types of EC2 auto-scaling policies in AWS. **10** **(2:5: 1.2.2)**

(OR)

10. a. Demonstrate the concept of load-balancing with an EC2 in two separate subnets. Also emphasize the need for the elastic load-balancer. **10** **(3:5: 1.2.2)**
- b. Illustrate security in the cloud and explain the application's shared responsibility between the customer and the cloud service provider. **10** **(3:5: 1.2.2)**

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