Reg.No.										

MANIPAL UNIVERSITY
JAIPUR

Faculty of Engineering

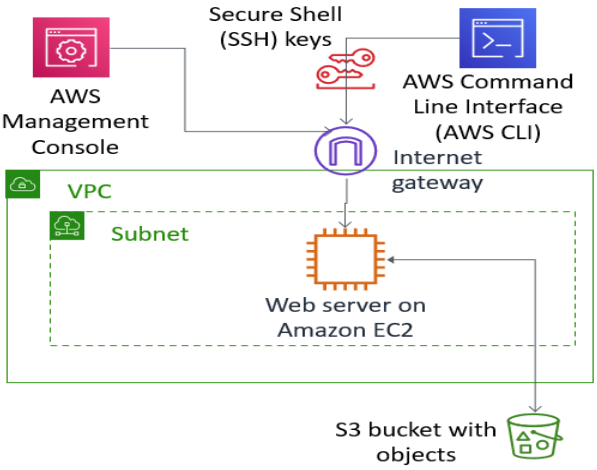
School of Computer Science and Engineering
Department of CSE/AIML
VI SEM. B.Tech. CSE/AIML/IT
Even Semester End Term Examination 2022-23
CS3241 CLOUD INFRASTRUCTURE AND SERVICES
Closed Book

Time: 2 Hour **MAX.MARKS: 40**

Instructions to Candidates
•Attempt any full five questions.
•Missing or wrong data, if any, may be assumed suitably after duly mentioning at proper place.
•Calculator is not allowed.

Q. No.	Question Script	Marks	CO Mapping
1	Design an AWS base solution for the given scenario and explain using a proper diagram. Scenario: Your customers might be sending data to your Amazon Elastic Compute Cloud (Amazon EC2) instances, which is a service in the compute category. These EC2 servers' batch the data in one-minute increments and add an object per customer to Amazon Simple Storage Service (Amazon S3), the AWS storage service you've chosen to use. You can then use a nonrelational database like Amazon DynamoDB to power your application, for example, to build an index so that you can find all the objects for a given customer that were collected over a certain period. You might decide to run these services inside an Amazon Virtual Private Cloud (Amazon VPC), which is a service in the networking category.	8	CO1, CO2, CO3
2	Explain the IAM Policy Structure. Demonstrate steps followed to assign and revoke the access rights from an existing user for a S3 object.	8	CO2
3 a.	Demonstrate functioning of all components of Amazon S3 lifecycle for managing data using AWS policies.	4	CO3
b.	Based on functionality and uses, differentiate between security group and access control list with an example.	4	CO3
4 a.	Elaborate the purpose of shared responsibility model.	3	CO4
b.	Identify who is responsible, either AWS or customer for the security,	5	CO2,

update, and configuration of all components mentioned given the diagram. CO3, CO4



5 Quite often, for large organization there is a requirement for connecting branch offices with their own, interconnected networks. This requirement can be fulfilled by provisioning instances within a VPC with a separate subnet for different branch offices. All resources within a VPC can communicate with each other through a private IP address by default, so all offices will be connected and will also have their local network within their subnet. 8 CO1, CO2, CO3, CO4

Configure a sample network and elaborate it using all steps that shows the use of VPC for connecting multiple branch offices with their local networks.

6 Consider the following scenario and fill all the missing(?) entries using some IP addresses or services. 8 CO3, CO4