



Faculty of Engineering
School of Computing and IT
Department of CSE
VI SEM. B.Tech.

Even Semester Mid Term-II Examination 2022-23
CS3241 CLOUD INFRASTRUCTURE AND SERVICES

Time: 1 Hour

MAX.MARKS: 20

Instructions to Candidates

- Answer all the questions.
- Missing data, if any, may be suitably assumed.
- Calculator not allowed.

Q. No.		Marks	CO Mapping
1.	<p>Consider this deployment. Who is responsible and why– AWS or the customer?</p> <p>The diagram illustrates an AWS Cloud architecture. It features a central VPC (Virtual Private Cloud) labeled 'VPC: Account A (owner)'. This VPC is divided into two subnets: a 'Private subnet' and a 'Public subnet'. The 'Private subnet' contains two accounts: 'Account B (participant)' and 'Account C (participant)'. 'Account B' has a 'Web server 1' and a 'Database Server'. 'Account C' has a 'Web server 2 on EC2' and an 'Amazon RDS instance'. The 'Public subnet' contains 'Account D (participant)', which has a 'NAT gateway', an 'EC2 instance', and an 'Amazon Redshift' instance. A 'Router' is shown connecting the private and public subnets. An 'Internet gateway' is connected to the public subnet. The entire setup is within an 'AWS Cloud' region.</p> <ol style="list-style-type: none">Ensuring that the AWS Management Console is not hacked?Configuring the subnet?Configuring the VPC?Protecting against network outages in AWS Regions?Securing the SSH keys?Ensuring network isolation between AWS customers' data?Ensuring low-latency network connection between the web server and the RDS instance?Enforcing multi-factor authentication for all user logins?Database upgrades or patches If database runs on an EC2 instance?Database upgrades or patches If the database instance runs as an	10	CO4

		Amazon RDS instance?		
2.		Elaborate functioning of security group and access control list with an example. How they are different from each other?	4	CO3
3.		How database in Amazon RDS or Amazon Aurora is better than database in Amazon Elastic Compute Cloud (Amazon EC2) or on-premises database?	3	CO4
4.		Demonstrate functioning of Amazon Redshift with an example.	3	CO3