

202

**AMITY SCHOOL OF ENGINEERING AND TECHNOLOGY**  
**MID TERM EXAMINATION (February-March, 2022)**  
**[B.Tech CSE] [4<sup>th</sup> / 6<sup>th</sup>]**  
**[Cloud Computing Practitioner]**

[CS 314]

**Time 1 Hr** **Max. Marks:30**  
**SECTION-A (Attempt any two questions out of three. Each question carries 06 marks)**

**Q1.** Answer the following questions

- \_\_\_\_\_ service allows you to automatically expand and shrink your application in response to demand.
- You have a set of EC2 Instances hosted on the AWS Cloud. The EC2 Instances are hosting a web application. If you get a DDos attack from the internet \_\_\_\_\_ and \_\_\_\_\_ can help in reducing the overall threat to your EC2 Instances.
- Amazon Elastic Compute Cloud (Amazon EC2) Spot instances are appropriate for \_\_\_\_\_ workloads.
- You are currently hosting an infrastructure and most of the EC2 instances are near 90 – 100% utilized. \_\_\_\_\_ type of EC2 instances you would utilize to ensure costs are minimized.
- \_\_\_\_\_ best describes the "Principal of Least Privilege".
- When creating security groups, \_\_\_\_\_ is a responsibility of the customer.

**Q2.** Discuss the AWS CAF to adopt transformation to fill gaps in skills and processes. Justify using proposed comprehensive approach in consideration of core perspective.

**Q3.** How will AWS help in financial estimation that helps buyers and owners to determine the direct and indirect costs of product or system delivered by AWS? How it helps in decision of whether or not to deploy on Amazon Web Services? Justify your statement.

**SECTION-B (Attempt any two questions out of three. Each question carries 06 marks)**

**Q4.** Discuss how Amazon EC2 and Amazon Machine Image (AMI) are related. How they are different from each other? Provide steps to launch an EC2 instance.

**Q5.** Write short notes on any three of the following:

- CloudFront
- Autoscaling & Elastic Load Balancing
- AWS Lambda & Elastic Beanstalks
- IAM

**Q6.** A company is deploying a two-tier, highly available web application to AWS. Which AWS service provides durable storage for static content while utilizing lower Overall CPU resources for the web tier? Explain the design and deployment steps for that service

**Section - C : Compulsory question (Case Study Based) (06 marks)**

**Q1.** Unilever was formed in 1930 by the merger of Dutch margarine producer, Margarine Unie and British soap maker, Lever Brothers. Today, the consumer goods giant sells food, home care, refreshments, and personal care products in over 190 countries. Unilever has headquarters in London, United Kingdom and Rotterdam, the Netherlands, and subsidiaries in over 90 countries. The company employs more than 170,000 people. In 2012, Unilever reported more than €51 billion in revenue. Unilever North America in Englewood Cliffs, New Jersey needed to re-design its infrastructure to support Unilever's digital marketing approach. Unilever previously used on-premises data centers to host its web properties, all of which had different technologies and processes. "We needed to standardize our environment to support a faster time-to-market," says Sreenivas Yalamanchili, Digital Marketing Services (DMS) Global Technical Manager. Unilever optimizes its business model by testing a marketing campaign in a pilot country. If the campaign is successful, the company deploys it to other countries and regions. The IT organization wanted to use the cloud to implement the same process. Recognize the important cloud technologies provided by AWS services which may be used by Unilever to transition to cloud. How AWS helps in meeting Demand to rapidly deploy new solution and constantly upgrade aging equipment. Explain the criteria and solution which is suitable for reducing Total cost of Ownership.