

Roll.No.

25UDSCT1002

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)

Chromepet, Chennai - 600 044.

B.Sc.Cs with DS - END SEMESTER EXAMINATIONS - NOVEMBER 2025

SEMESTER - I

25UDSCT1002 - Fundamentals of Cloud Architecture

Total Duration : 2 Hrs.30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Define cloud computing and explain its key characteristics.
2. Illustrate different cloud deployment models with suitable examples.
3. Explain the concept of AWS global infrastructure and its components.
4. Describe the use cases of AWS core services like EC2, S3, and RDS.
5. Explain the Shared Responsibility Model in AWS and its importance.
6. Describe the use of Amazon Cloud Watch for monitoring AWS applications.
7. Explain how AWS Auto Scaling and Load Balancing contribute to fault tolerance.
8. Describe the steps involved in setting up a scalable web application project using AWS.

Section C

Answer any **THREE** questions ($3 \times 10 = 30$ Marks)

9. Discuss in detail the cloud service models (IaaS, PaaS, SaaS) and their advantages with real-time examples.
10. Explain AWS global infrastructure in detail. How do Regions and Availability Zones help improve reliability?
11. Examine the AWS Identity and Access Management (IAM) features and explain how compliance is ensured using AWS tools.
12. Demonstrate how an application is deployed and managed using AWS Elastic Beanstalk, Auto Scaling, and Cloud Watch.
13. Evaluate the process of designing, deploying, and monitoring a scalable application using AWS cloud services.
