

Int. M.Sc. (DS) Sem.-9 Examination
CC-502

Project Development on Cloud AWS

Time : 2-30 Hours]

November-2025

[Max. Marks : 70

Instructions: All questions are compulsory. Use of non-programmable scientific calculator is allowed.

- Q.1 (a) Discuss the different types of cloud deployment models (Public, Private, Hybrid). Give real-life examples and their use cases. (07)
- (b) What are the different types of tasks performed by Amazon Machine Learning? Describe the use cases of each with examples. (07)
- OR**
- (a) Describe Amazon Redshift. How can you set it up and what are its core features that support data warehousing and analytics? (07)
- (b) Explain Amazon RDS. Describe its features and steps involved in setting up and connecting to a MySQL DB instance. (07)
- Q.2 (a) What is AWS Data Pipeline? Describe its features and provide the process to create, manage, and delete a pipeline. (07)
- (b) What is Amazon DynamoDB? Describe its key benefits and explain how you can run it locally for development and testing. (07)
- OR**
- (a) What is AWS Storage Gateway? Describe its types, especially Volume Gateway and Gateway-Virtual Tape Library (VTL), with examples. (07)
- (b) Describe the AWS Management Console. How can users customize the dashboard and manage services using it? (07)
- Q.3 (a) Explain Cloud Computing in detail. How does it differ from traditional computing, and what are the key benefits it offers to businesses? (07)
- (b) Explain Amazon Kinesis in detail. How can it be used for real-time data streaming, and what are the features and limitations of Kinesis? (07)
- OR**
- (a) Illustrate the key considerations for hosting a web application on AWS. Include aspects like scalability, security, cost, and architecture. (07)
- (b) Highlight and explain the features and benefits of Amazon S3, Amazon EBS, and CloudFront. How do they differ in their storage approach? (07)
- Q.4 (a) Explain Amazon S3 in detail. How can users configure an S3 bucket, upload objects, and manage storage efficiently? (07)
- (b) Discuss the various Amazon EBS volume types. Compare their performance, use cases, and cost-effectiveness. (07)
- OR**
- (a) Compare and contrast Amazon RDS, DynamoDB, and Redshift in terms of architecture, use cases, scalability, and performance. (07)
- (b) Discuss the cost factors associated with Amazon RDS. How does pricing vary based on instance type, storage, and region? (07)

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Q.5 Attempt any SEVEN out of TWELVE:

(14)

- (1) What is the primary use of Amazon Redshift?
- (2) How do you empty an S3 bucket?
- (3) What is a Gateway-Virtual Tape Library (VTL) used for?
- (4) How can a user access AWS services from a mobile device?
- (5) Can DynamoDB run on your local machine? If yes, how?
- (6) What type of database is Amazon Redshift designed for?
- (7) How do you delete a DB instance in RDS?
- (8) Which AWS analytics service is mainly used for real-time data streaming?
- (9) What does RDS stand for in AWS?
- (10) List any two features of Amazon Kinesis.
- (11) What are the three main cloud service models?
- (12) Name the AWS service used for large-scale data processing using Hadoop.
