Question 1
Which emerging technology has made it possible for every enterprise to have access to limitless storage and high-performance computing?
- Internet of Things
- Cloud Computing
- Big Data
- Machine Learning

Correct
Cloud technologies has made it possible for every enterprise, regardless of its size, to have access to limitless storage and high-performance computing at nominal costs.

Question 2
Which of the data roles is responsible for extracting, integrating, and organizing data into data repositories?
- Data Scientist
- Data Analyst
- Business Intelligence Analyst
- Data Engineer

Correct
Data Engineers are responsible for extracting, integrating, and organizing data into data repositories.

3.

Question 3
The field of data engineering concerns itself with the mechanics for the flow and access of data. Which one of the following statements captures the goal of data engineering?
- Design pipelines for extracting, transforming, and loading data into data repositories
- Architect data stores for the storage of processed data
- Maintain distributed systems for large-scale processing of data
- Make quality data available for fact-finding and business decision-making

Correct
Data engineering is the process of collecting raw data and converting it into analytics-ready data by cleaning, transforming, and preparing data so that it is reliable.

A modern data ecosystem includes a network of continually evolving entities. It includes:
- Data sources, enterprise data repository, business stakeholders, and tools, applications, and infrastructure to manage data
- Social media sources, data repositories, and APIs
- Data sources, databases, and programming languages
- Data providers, databases, and programming languages

Correct
These are the key entities of a modern data ecosystem.

- Data Engineers work within the data ecosystem to:
- Develop and maintain data architectures
- Analyze data for deriving insights
- Provide business intelligence solutions by monitoring data on different business functions
- Analyze data for actionable insights

Correct
One of the responsibilities of a Data Engineer in a data ecosystem is to develop and maintain data architectures so that data is available for business operations and analysis.

The goal of data engineering is to make quality data available for fact-finding and decision-making. Which one of these statements captures the process of data engineering?

- Collecting, processing, storing, and making data available to users securely
- Collecting, processing, and making data available to users securely
- Collecting, processing, and storing data
- Processing data and making it available to users securely

Correct

Data engineering includes the collection of data from disparate sources, processing data so that it is usable, storing processed data, and making it available to users securely.

Question 4

Data extracted from disparate sources can be stored in:
- Data Lakes only
- Data Warehouses only
- Databases only
- Databases, data warehouses, data lakes, or any other type of data repository

Correct

Data extracted from multiple sources can be stored in any type of data repository, such as, databases, data warehouses, and data lakes.

From the provided list, select the three emerging technologies that are shaping today's data ecosystem.
- Cloud Computing, Machine Learning, and Big Data
- Machine Language, Cloud Computing, and Internet of Things
- Big Data, Internet of Things, and Dashboarding
- Cloud Computing, Internet of Things, and Dashboarding

Correct

Emerging technologies such as Cloud Computing, Machine Learning, and Big Data are shaping today's data ecosystem and its possibilities.