1. Which technology is commonly used for data ingestion in a Data Lake (DL)?

Apache Kafka\*\*

Redis

Oracle Database

Microsoft Excel

1. Which cloud providers offer popular data platform services for both Data Warehouses and Data Lakes?

Google Cloud Platform (GCP)

Oracle Cloud

Alibaba Cloud

All of the above\*\*

1. In a Data Lake (DL), data is typically stored in a flat hierarchy, allowing for:

Efficient indexing

Quick data retrieval

Flexibility in data structure\*\*

High security

1. Which of the following is a common programming language for processing data in Big Data systems?

C++

JAVA

Python \*\*

Ruby

1. Which cloud service provides a popular Big Data platform that includes services like Amazon EMR and Amazon Redshift?

Microsoft Azure

Google Cloud Platform

Oracle Cloud

Amazon Web Services (AWS)\*\*

1. What is the primary advantage of using a NoSQL database in Big Data architectures?

ACID compliance

Schema flexibility\*\*

Low cost

Limited data storage capacity

1. Which Unix command is used to display the manual page for a specific command?

help

man\*\*

info

docs

1. What does the "exit" command do in a Unix shell script?

Terminate the script immediately\*\*

Pause the script

Restart the script

Print a message to the console

1. Which command is used to assign the output of one command to a variable in a Unix shell Script ?

assign

store

export

$(command)\*\*

1. Which SQL command is used to add a new column to an existing table?

APPEND

EXTEND

ADD\*\*

INSERT

1. What SQL command is used to retrieve unique values from a database table?

UNIQUE

DISTINCT\*\*

UNIQUEVALUES

FILTER

1. Which SQL command is used to modify the structure of an existing database table?

UPDATE

ALTER\*\*

REVISE

1. DELETE FROM employees  
   WHERE employment\_status = 'Left';  
   Expect the Outpout of the Query ?

Delete records of employees who have left the company.\*\*\*

Delete the Records

Alter the Table

Delete the table and Records

1. UPDATE employees  
   SET salary = salary \* 1.10  
   WHERE department\_id = 'IT';

Increase the Salary 10%

Increase the salary 10% for IT Employees

Increase the salary of all employees in the "IT" department by 10%.\*\*\*

None of the above

1. SELECT employee\_name, salary  
   FROM employees  
   ORDER BY salary DESC  
   FETCH FIRST 10 ROWS ONLY;

Retrieve the top 10 highest-paid employees.\*\*

Increase the salary 10% for IT Employees

Retrive the data from the table

All of the above

1. SELECT employee\_name, salary  
   FROM employees  
   WHERE salary > (SELECT AVG(salary) FROM employees);

Finding the average Salary

Retrieve employees with salaries higher than the average salary\*\*\*\*

Finding the employees History

All of the above

1. Which of the following is an example of structured data in the context of Big Data?

Twitter tweets

Sensor data from IoT devices

Customer reviews on a website

Financial transaction records\*\*\*\*

1. What is the primary goal of data preprocessing in the context of Big Data?

To reduce data storage costs

To make the data easier to work with and analyze\*\*

To increase data security

To delete unnecessary data

1. In Python, how do you comment a single line of code?

// This is a comment

# This is a comment\*\*\*

/\* This is a comment \*/

-- This is a comment

1. What is the result of the expression 3 + 4 \* 2 in Python?

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1. How do you define a function in Python?

def function\_name:

function function\_name():

function\_name def():

def function\_name():\*\*\*

1. Which of the following is false statement in python

- int(144)==144

- int('144')==144

- int(144.0)==144

None of the above \*\*\*\*

1. i = 1  
   while True:  
    if i%3 == 0:  
    break  
    print(i)  
      
    i + = 1

1 2 3

error\*\*\*

1 2

none of the mentioned

1. x = 'abcd'  
   for i in x:  
    print(i.upper())

a b c d

A B C D\*\*\*

Error

none of the mentioned

1. for i in [1, 2, 3, 4][::-1]:  
    print (i)

4 3 2 1\*\*

error

1 2 3 4

none of the mentioned

1. Google Cloud Platform offers a service for running virtual machines on Google's infrastructure. What is it called?

GCP Compute Engine\*\*\*

GCP App Engine

GCP Cloud Functions

GCP Kubernetes Engine

1. Which GCP service provides a managed NoSQL database service?

Google Cloud SQL

Google Bigtable\*\*\*

Google Cloud Spanner

Google Cloud Datastore

1. What is the AWS service that provides a fully managed container orchestration service?

AWS Lambda

Amazon S3

Amazon ECS (Elastic Container Service)\*\*\*

Amazon RDS

1. Which AWS service provides scalable object storage, allowing users to store and retrieve data through the internet?

Amazon RDS

Amazon S3\*\*\*

Amazon EC2

Amazon Lambda

1. What is the key concept in DevOps for enabling frequent and reliable software releases?

Continuous Delivery\*\*\*

Continuous Documentation

Continuous Marketing

Continuous Planning

1. In SRE, what is the purpose of Service Level Objectives (SLOs)?

To define internal team goals

To measure the reliability of a service\*\*

To track customer complaints

To monitor hardware utilization

1. Which of the following is a common tool for automating the deployment of software in DevOps practices?

Docker\*\*

JIRA

MicroSoft Excel

PhotoShop

1. What is the main responsibility of a Site Reliability Engineer (SRE)?

Developing new software features

Ensuring the reliability and availability of services\*\*

Managing customer support

Writing user documentation

1. Which of the following is a key characteristic of cloud computing that enables users to access services from anywhere with an internet connection?

Service Level Agreements (SLAs)

Scalability

On-Premises Deployment

Accessibility\*\*\*

1. What is the term for a service that provides a virtualized computing environment over the internet, allowing users to run their applications without managing physical hardware?

IaaS (Infrastructure as a Service)\*\*

PaaS (Platform as a Service)

SaaS (Software as a Service)

DaaS (Desktop as a Service)

1. Which cloud computing model allows for the most control over the infrastructure and is ideal for highly customized solutions?

Public Cloud

Hybrid Cloud

Private Cloud\*\*\*

Community Cloud

1. What is the concept of "elasticity" in cloud computing?

The ability to stretch cloud servers physically

The capability to automatically adjust resources based on demand

The process of making cloud services more rigid\*\*\*

The ability to use cloud services without limits

1. Which of the following is a common alternative to Terraform for managing infrastructure as code?

AWS CloudFormation\*\*

Microsoft Word

Google Sheets

Adobe Photoshop

1. What command is used to apply changes to the infrastructure defined in a Terraform configuration?

terraform init

terraform plan

terraform apply\*\*\*

terraform destroy

1. What is the purpose of Terraform's "state" file?

To store password hashes

To maintain the current state of the infrastructure\*\*

To log error messages

To store user authentication data

1. The markup language used to write Docker configuration files is:

HTML

Xml

YAML\*\*

JAVA

1. Docker rm containerID

It is going to stop the Container

Command used to delete the container\*\*\*\*

To Remove foresbily the container

To Pause the container

1. Which programming language was used to write Docker?

Go Lang\*\*\*\*

C++

JAVA

PYTHON

1. docker rmi -f imageID

Command used to remove docker images foresbily \*\*\*\*

Remove the docker image

Images

Containers

1. Docker create network networkname --subnet --gateway

Using to create docker bridge

using to create docker network\*\*\*

creating docker subnet

containers ls

1. What is the primary advantage of using Ansible for configuration management?

It requires deep knowledge of complex programming languages.

It has a steep learning curve.

It is agentless and easy to use. \*\*\*\*\*

It can only be used for small-scale deployments.

1. Which of the following is NOT a typical use case for Ansible?

Provisioning and configuring servers

Deploying applications

Managing network devices

Editing images and videos\*\*\*\*

1. What command is used to execute an Ansible playbook?

ansible run

ansible execute

ansible-playbook\*\*\*\*

ansible runbok

1. ansible-playbook playbook name --syntax

To Check the Syntax Error\*\*\*

Error

execute

ansible runbook

1. What is the purpose of an Ansible "inventory" file?

To list available books in a library

To specify the location of configuration files

To define the hosts and groups to manage\*\*\*

To store cryptographic keys

1. git commit -m "commit message"

To Commit the Changes

To Commit the changes into local Repository \*\*\*

Error

Not able run command

1. what is the git status command

To Check the status of the file\*\*\*

To see tracked files

To check logs

Not able run command

1. what is Git Tag Concept ?

To Assign meaningful name to commit ID\*\*\*

To Tack Commit IDS

Completed

Logs

1. Which Git command is used to see the differences between two branches or commits?

git branch

git log

git diff\*\*\*

Logs

1. What is the purpose of a ".gitignore" file?

To store sensitive information

To list the names of authorized users

To specify files and directories that should be ignored by Git\*\*\*

To define branch permissions

1. What is the primary goal of Continuous Integration (CI) in DevOps?

Automating infrastructure provisioning

Frequent and automated code integration\*\*\*\*

Optimizing network configurations

Manual code testing

1. What is the term for automatically running tests and builds on code changes in a CI/CD pipeline?

Automating infrastructure provisioning

Continuous integration\*\*\*

Automation Scripts

Manual code testing

1. pipeline {  
    agent any  
    stages {   
    stage('Example') {  
    ...  
    ...  
    }  
    }  
   } : What Is Stage Block

To Set Stages for the Pipeline like Build, Test\*\*\*

Automation Scripts

Executing Stage Block

1. What does "blue-green deployment" refer to in the context of CI/CD?

A deployment strategy where two different environments are used for production\*\*\*\*

Blue green deployment

Executing stage block

1. What is mean by Build Trigger - Poll SCM

Whenever Code Changes in Repo Pipeline will execute automatically\*\*\*

Executing Pipeline

Code Changes