DLMDSEDE01\_Unit01\_Question01

Which of these is not the responsibility of a data engineer?

* analyzing data (1 Pts)
* removing corrupted data (0 Pts)
* ingesting data from different sources (0 Pts)
* optimize databases for analysis (0 Pts)

DLMDSEDE01\_Unit01\_Question02

What is defined as “the probability of failure-free software operation for a specified period of time in a specified environment” (Pandey & Goyal, 2013)?

* reliability (1 Pts)
* maintainability (0 Pts)
* scalability (0 Pts)
* security (0 Pts)

DLMDSEDE01\_Unit01\_Question03

Which of these is not a metric of fault and failure?

* software size (1 Pts)
* mean time to repair (0 Pts)
* mean time between failure (0 Pts)
* availability (0 Pts)

DLMDSEDE01\_Unit01\_Question04

Which of these is not an approach to enabling application scalability?

* large amounts of application code (1 Pts)
* scaling up (0 Pts)
* scaling out (0 Pts)
* dynamic scaling (0 Pts)

DLMDSEDE01\_Unit01\_Question05

When bugs are found in an application and must be fixed, which type of maintenance is taking place?

* corrective maintenance (1 Pts)
* adaptive maintenance (0 Pts)
* perfective maintenance (0 Pts)
* preventive maintenance (0 Pts)

DLMDSEDE01\_Unit02\_Question01

Which of the following is an example of a batch processing job?

* a researcher delivers a large data file of measurement to a machine for analysis (1 Pts)
* a system measures the temperature of a furnace and displays it on the monitor (0 Pts)
* the function of a bank ATM (0 Pts)
* the operation of a traffic control system (0 Pts)

DLMDSEDE01\_Unit02\_Question02

Which daemon in Hadoop is the master node?

* NameNode (1 Pts)
* DataNode (0 Pts)
* JobTracker (0 Pts)
* NodeTracker (0 Pts)

DLMDSEDE01\_Unit02\_Question03

Which characteristic of a data stream defines the structure of data tuples?

* schema (1 Pts)
* table (0 Pts)
* data tuple (0 Pts)
* data stream (0 Pts)

DLMDSEDE01\_Unit02\_Question04

A category, or feed name, on the Kafka cluster to which messages are published is called a:

* topic (1 Pts)
* Tuple (0 Pts)
* Consumer (0 Pts)
* producer (0 Pts)

DLMDSEDE01\_Unit02\_Question05

Which of the following is not handled by the ZooKeeper task in Kafka?

* managing read and write requests (1 Pts)
* electing a controller (0 Pts)
* cluster membership (0 Pts)
* topic configuration (0 Pts)

DLMDSEDE01\_Unit03\_Question01

Which of the following is not a characteristic of a microservice application?

* one-dimensional scaling (1 Pts)
* each service is loosely coupled with other services (0 Pts)
* high scalability (0 Pts)
* high maintainability (0 Pts)

DLMDSEDE01\_Unit03\_Question02

What aspect of a monolithic application makes its deployment straightforward?

* There is only one file (JAR or EXE) to deploy. (1 Pts)
* The size of the application is small. (0 Pts)
* The deployment of modules is easier than the deployment of microservices. (0 Pts)
* None of the above answers are correct. (0 Pts)

DLMDSEDE01\_Unit03\_Question03

For which of the following are microservice applications not well-equipped?

* management of distributed databases (1 Pts)
* adaption to new frameworks (0 Pts)
* scalability (0 Pts)
* overloading the IDE (0 Pts)

DLMDSEDE01\_Unit03\_Question04

Which of the following is the responsibility of API gateway in a microservice application?

* All of the above answers are correct. (1 Pts)
* single entry point to the application (0 Pts)
* protocol translator between microservices and the clients (0 Pts)
* request router (0 Pts)

DLMDSEDE01\_Unit03\_Question05

Multiple service instances per host deployment strategy of microservices has benefits such as:

* quick deployment (1 Pts)
* complete isolation of the microservices (0 Pts)
* benefitting from virtual machine cloud platform infrastructure (0 Pts)
* None of the above answers are correct. (0 Pts)

DLMDSEDE01\_Unit04\_Question01

According to the General Data Protection Regulation (GDPR), what is the right of transparent information?

* The controller or processor should provide transparent and easy-to-understand information about the purpose of data usage to the data subject. (1 Pts)
* The data subject should be informed about the controller and processor organ. (0 Pts)
* The data subject should provide the controller and processor with transparent information. (0 Pts)
* None of the above answers are correct. (0 Pts)

DLMDSEDE01\_Unit04\_Question02

According to the General Data Protection Regulation (GDPR), what is the right to rectification?

* The data subject has the right to modify and update their stored and processed data. (1 Pts)
* The controller or processor should provide transparent and easy-to-understand information about the purpose of data usage to the data subject. (0 Pts)
* The data subject should have the right to request their stored data and performed processes. (0 Pts)
* The data subject has the right to request the removal of their individual data. (0 Pts)

DLMDSEDE01\_Unit04\_Question03

The …............ is the roadmap to implement and maintain data governance within an organization.

* data governance framework (1 Pts)
* data governance offices (0 Pts)
* data quality measures (0 Pts)
* None of the above answers are correct. (0 Pts)

DLMDSEDE01\_Unit04\_Question04

Which of the following tasks is a data governance task?

* defining and approving data strategies, metrics, standards, and architecture (1 Pts)
* data cleansing (0 Pts)
* database design (0 Pts)
* data management (0 Pts)

DLMDSEDE01\_Unit04\_Question05

In a data governance program, who is directly responsible for the data within the organization?

* the data stakeholder (1 Pts)
* data stewards (0 Pts)
* data governance offices (0 Pts)
* clients (0 Pts)

DLMDSEDE01\_Unit05\_Question01

With which of the following cloud delivery models does the user have the highest amount of control over the system?

* private (on-premise) cloud (1 Pts)
* IaaS (0 Pts)
* PaaS (0 Pts)
* SaaS (0 Pts)

DLMDSEDE01\_Unit05\_Question02

Amazon …........... is a monitoring service for DevOps engineers, developers, site reliability engineers (SREs), and IT managers.

* CloudWatch (1 Pts)
* Elastic File System (0 Pts)
* S3 (0 Pts)
* Lambda (0 Pts)

DLMDSEDE01\_Unit05\_Question03

Which of the following is a Google Cloud PaaS service?

* App Engine (1 Pts)
* Cloud Functions (0 Pts)
* Virtual Private Cloud (0 Pts)
* BigQuery (0 Pts)

DLMDSEDE01\_Unit05\_Question04

Which of the following building blocks belong to Azure Queues Storage?

* all of the above (1 Pts)
* storage account (0 Pts)
* queue (0 Pts)
* message (0 Pts)

DLMDSEDE01\_Unit05\_Question05

…............... is Microsoft’s service for the storage of object files. This storage service is optimized for big, unstructured data.

* Azure Blob (1 Pts)
* Azure Tables (0 Pts)
* Azure Files (0 Pts)
* Azure Disks (0 Pts)

DLMDSEDE01\_Unit06\_Question01

Which of the following are steps of a project plan to operationalize data science?

* all of the above (1 Pts)
* build (0 Pts)
* manage (0 Pts)
* monitor (0 Pts)

DLMDSEDE01\_Unit06\_Question02

….......... is a text configuration document that contains some information about how to build the Docker image, such as host operating system, environmental variables, file locations, and network information.

* Dockerfile (1 Pts)
* Docker image (0 Pts)
* Docker run (0 Pts)
* Docker engine (0 Pts)

DLMDSEDE01\_Unit06\_Question03

….............. is a portable, extensible, open-source platform for managing containerized workloads and services

* Kubernetes (1 Pts)
* Docker (0 Pts)
* Google Functions (0 Pts)
* None of the above answers are correct. (0 Pts)

DLMDSEDE01\_Unit06\_Question04

The key benefit of using ML pipeline is …........ the steps in a machine learning solution.

* automating (1 Pts)
* encapsulating (0 Pts)
* isolating (0 Pts)
* improving (0 Pts)

DLMDSEDE01\_Unit06\_Question05

In which step of machine learning pipeline is the ingested data investigated for format differences, outliers, trends, missing values, anomalies, etc.

* data preparation (1 Pts)
* data ingestion (0 Pts)
* data segregation (0 Pts)
* model training (0 Pts)