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Oracle 1z0-1110-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> OCI Data Science - Introduction & Configuration: This section of the exam measures the skills of Machine Learning Engineers and covers foundational concepts of Oracle Cloud Infrastructure (OCI) Data Science. It includes an overview of the platform, its architecture, and the capabilities offered by the Accelerated Data Science (ADS) SDK. It also addresses the initial configuration of tenancy and workspace setup to begin data science operations in OCI.
Topic 2	<ul style="list-style-type: none"> Implement End-to-End Machine Learning Lifecycle: This section evaluates the abilities of Machine Learning Engineers and includes an end-to-end walkthrough of the ML lifecycle within OCI. It involves data acquisition from various sources, data preparation, visualization, profiling, model building with open-source libraries, Oracle AutoML, model evaluation, interpretability with global and local explanations, and deployment using the model catalog.
Topic 3	<ul style="list-style-type: none"> Use Related OCI Services: This final section measures the competence of Machine Learning Engineers in utilizing OCI-integrated services to enhance data science capabilities. It includes creating Spark applications through OCI Data Flow, utilizing the OCI Open Data Service, and integrating other tools to optimize data handling and model execution workflows.
Topic 4	<ul style="list-style-type: none"> Create and Manage Projects and Notebook Sessions: This part assesses the skills of Cloud Data Scientists and focuses on setting up and managing projects and notebook sessions within OCI Data Science. It also covers managing Conda environments, integrating OCI Vault for credentials, using Git-based repositories for source code control, and organizing your development environment to support streamlined collaboration and reproducibility.
Topic 5	<ul style="list-style-type: none"> Apply MLOps Practices: This domain targets the skills of Cloud Data Scientists and focuses on applying MLOps within the OCI ecosystem. It covers the architecture of OCI MLOps, managing custom jobs, leveraging autoscaling for deployed models, monitoring, logging, and automating ML workflows using pipelines to ensure scalable and production-ready deployments.

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Oracle Cloud Infrastructure 2025 Data Science Professional Sample Questions (Q37-Q42):

NEW QUESTION # 37

Which of the following best describes the principal goal of data science?

- A. To mine and analyze large amounts of data in order to uncover information that can be used for operational improvements and business gains.
- B. To collect and archive exhaustive datasets from various source systems for corporate record-keeping uses.
- C. Data science is focused on output of the analysis.
- D. To collect and prepare data for use as part of analytics applications.

Answer: A

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Define data science's main goal.

* Evaluate Options:

* A: Archiving-Not the focus; too narrow.

* B: Analyze for insights/business value-Core purpose-correct.

* C: Prep for analytics-Means, not the end goal.

* D: Output-focused-Vague, incomplete.

* Reasoning: B captures the actionable insight generation central to data science.

* Conclusion: B is correct.

OCI documentation defines data science as "mining and analyzing large datasets to uncover actionable insights for operational improvements and business value." A is storage-focused, C is preparatory, and D is unclear-only B reflects the principal goal per OCI's mission.

Oracle Cloud Infrastructure Data Science Documentation, "What is Data Science?".

NEW QUESTION # 38

Which OCI service provides a managed Kubernetes service for deploying, scaling, and managing containerized applications?

- A. Oracle Cloud Infrastructure Container Engine for Kubernetes
- B. Oracle Cloud Infrastructure Load Balancing
- C. Oracle Cloud Infrastructure Streaming
- D. Oracle Cloud Infrastructure Container Registry

Answer: A

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify OCI's managed Kubernetes service.

* Evaluate Options:

* A: Container Registry-Stores images, not Kubernetes.

* B: Load Balancing-Network service, not Kubernetes.

* C: Container Engine (OKE)-Managed Kubernetes-correct.

* D: Streaming-Data streaming, not containers.

* Reasoning: C is OCI's Kubernetes offering-OKE.

* Conclusion: C is correct.

OCI documentation states: "OCI Container Engine for Kubernetes (OKE) (C) provides a managed service to deploy, scale, and manage containerized applications using Kubernetes." A, B, and D serve other purposes- only C matches per OCI's container services.

Oracle Cloud Infrastructure OKE Documentation, "Overview".

NEW QUESTION # 39

As you are working in your notebook session, you find that your notebook session does not have enough compute CPU and memory for your workload. How would you scale up your notebook session without losing your work?

- A. Deactivate your notebook session, provision a new notebook session on a larger compute shape and re- create all of your file changes
- B. Create a temporary bucket on Object Storage, write all your files and data to Object Storage, delete your notebook session, provision a new notebook session on a larger compute shape, and copy your files and data from your temporary bucket onto your new notebook session
- C. Ensure your files and environments are written to the block volume storage under the /home /datascience directory, deactivate the notebook session, and activate the notebook session with a larger compute shape selected
- D. Download all your files and data to your local machine, delete your notebook session, provision a new notebook session on a larger compute shape, and upload your files from your local machine to the new notebook session

Answer: C

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Scale up notebook without losing work.

* Evaluate Options:

* A: Object Storage-Extra steps, inefficient.

* B: Block volume-Persists data, seamless scale-correct.

* C: Local machine-Risky, cumbersome.

* D: Recreate-Loses work, impractical.

* Reasoning: B uses OCI's built-in persistence.

* Conclusion: B is correct.

OCI documentation states: "Files in /home/datascience (B) persist on block volume; deactivate, then reactivate with a larger shape to scale up without data loss." A, C, and D add complexity or risk-only B is optimal per OCI's design.

Oracle Cloud Infrastructure Data Science Documentation, "Scaling Notebook Sessions".

NEW QUESTION # 40

You are preparing a configuration object necessary to create a Data Flow application. Which THREE parameter values should you provide?

- A. The bucket used to read/write the PySpark script in Object Storage
- B. The local path to your PySpark script
- C. The display name of the application
- D. The path to the archive.zip file
- E. The compartment of the Data Flow application

Answer: A,C,E

Explanation:

Detailed Answer in Step-by-Step Solution:

* Objective: Identify three required params for an OCI Data Flow app config.

* Understand Data Flow: Runs Spark apps; needs compartment, storage, and identity.

* Evaluate Options:

* A: Archive path-Optional if script is in Object Storage-incorrect.

* B: Local script path-Not needed; script is uploaded-incorrect.

* C: Compartment-Required for resource scope-correct.

* D: Bucket-Required for script storage/access-correct.

* E: Display name-Required for app identification-correct.

* Reasoning: C, D, E are mandatory metadata for Data Flow creation-script location is specified via bucket.

* Conclusion: C, D, E are correct.

OCI documentation states: "To create a Data Flow application, configure the compartment OCID (C), Object Storage bucket for the PySpark script (D), and a display name (E) in the application object." Local paths (B) or archives (A) are optional or handled separately-only C, D, E are required per OCI's Data Flow API spec.

Oracle Cloud Infrastructure Data Flow Documentation, "Creating Applications".

NEW QUESTION # 41

What is a conda environment?

- A. An environment deployment system on Oracle AI
- B. A system that manages package dependencies
- C. A collection of kernels
- **D. An open-source environment management system**

Answer: D

Explanation:

Detailed Answer in Step-by-Step Solution:

* Define Conda: Conda is a widely used tool for managing packages and environments in data science.

* Evaluate Options:

* A: Partially true-Conda manages dependencies, but it's broader (an environment system).

* B: Incorrect-Kernels (e.g., Jupyter) are separate; Conda manages environments.

* C: Correct-Conda is an open-source tool for creating isolated environments with specific packages.

* D: Incorrect-Not specific to Oracle AI; it's a general tool.

* Reasoning: C captures Conda's full scope as an open-source system, beyond just dependency management (A).

* Conclusion: C is the most accurate.

OCI documentation describes Conda as "an open-source package and environment management system that allows data scientists to create isolated environments with specific versions of Python and libraries." A is too narrow, B misaligns with kernel concepts, and D ties it incorrectly to Oracle AI. C aligns with Conda's official definition and OCI's usage.

Oracle Cloud Infrastructure Data Science Documentation, "Conda Environments Overview".

NEW QUESTION # 42

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