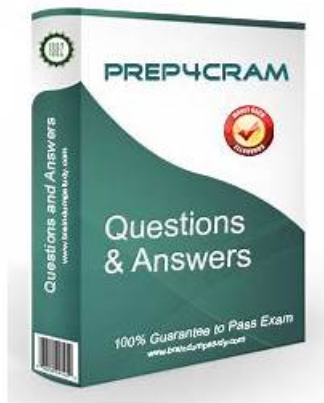


# Exam 1Z0-1122-25 Answers - 1Z0-1122-25 Latest Cram Materials



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## Oracle 1Z0-1122-25 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Get started with OCI AI Portfolio: This section measures the proficiency of Cloud AI Specialists in exploring Oracle Cloud Infrastructure (OCI) AI services. It provides an overview of OCI AI and machine learning services, details AI infrastructure capabilities and explains responsible AI principles to ensure ethical and transparent AI development.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Intro to AI Foundations: This section of the exam measures the skills of AI Practitioners and Data Analysts in understanding the fundamentals of artificial intelligence. It covers key concepts, AI applications across industries, and the types of data used in AI models. It also explains the differences between artificial intelligence, machine learning, and deep learning, providing clarity on how these technologies interact and complement each other.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Intro to DL Foundations: This section assesses the expertise of Deep Learning Engineers in understanding deep learning frameworks and architectures. It covers fundamental concepts of deep learning, introduces convolutional neural networks (CNN) for image processing, and explores sequence models like recurrent neural networks (RNN) and long short-term memory (LSTM) networks for handling sequential data.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>Intro to Generative AI &amp; LLMs: This section tests the abilities of AI Developers to understand generative AI and large language models. It introduces the principles of generative AI, explains the fundamentals of large language models (LLMs), and discusses the core workings of transformers, prompt engineering, instruction tuning, and LLM fine-tuning for optimizing AI-generated content.</li></ul>
Topic 5	<ul style="list-style-type: none"><li>OCI Generative AI and Oracle 23ai: This section evaluates the skills of Cloud AI Architects in utilizing Oracle's generative AI capabilities. It includes a deep dive into OCI Generative AI services, Autonomous Database Select AI for enhanced data intelligence and Oracle Vector Search for efficient information retrieval in AI-driven applications.</li></ul>
Topic 6	<ul style="list-style-type: none"><li>Intro to ML Foundations: This section evaluates the knowledge of Machine Learning Engineers in understanding machine learning principles and methodologies. It explores the basics of supervised learning, focusing on regression and classification techniques, along with unsupervised learning methods such as clustering and anomaly detection. It also introduces reinforcement learning fundamentals, helping professionals grasp the different approaches used to train AI models.</li></ul>

## Oracle Cloud Infrastructure 2025 AI Foundations Associate Sample Questions (Q10-Q15):

### NEW QUESTION # 10

What is the benefit of using embedding models in OCI Generative AI service?

- A. They simplify managing databases.
- B. They facilitate semantic searches.
- C. They optimize the use of computational resources.
- D. They enable creating detailed graphics.

**Answer: B**

Explanation:

Embedding models in the OCI Generative AI service are designed to represent text, phrases, or other data types in a dense vector space, where semantically similar items are located closer to each other. This representation enables more effective semantic searches, where the goal is to retrieve information based on the meaning and context of the query, rather than just exact keyword matches.

The benefit of using embedding models is that they allow for more nuanced and contextually relevant searches. For example, if a user searches for "financial reports," an embedding model can understand that "quarterly earnings" is semantically related, even if the exact phrase does not appear in the document. This capability greatly enhances the accuracy and relevance of search results, making it a powerful tool for handling large and diverse datasets.

### NEW QUESTION # 11

Which algorithm is primarily used for adjusting the weights of connections between neurons during the training of an Artificial Neural Network (ANN)?

- A. Random Forest
- B. Gradient Descent
- C. Backpropagation
- D. Support Vector Machine

**Answer: C**

Explanation:

Backpropagation is the algorithm primarily used for adjusting the weights of connections between neurons during the training of an Artificial Neural Network (ANN). It is a supervised learning algorithm that calculates the gradient of the loss function with respect to each weight by applying the chain rule, propagating the error backward from the output layer to the input layer. This process updates the weights to minimize the error, thus improving the model's accuracy over time.

Gradient Descent is closely related as it is the optimization algorithm used to adjust the weights based on the gradients computed by backpropagation, but backpropagation is the specific method used to calculate these gradients.

### NEW QUESTION # 12

Which AI domain is associated with tasks such as identifying the sentiment of text and translating text between languages?

- A. Natural Language Processing
- B. Computer Vision
- C. Anomaly Detection
- D. Natural Language Processing

**Answer: D**

Explanation:

Natural Language Processing (NLP) is the AI domain associated with tasks such as identifying the sentiment of text and translating text between languages. NLP focuses on enabling machines to understand, interpret, and generate human language in a way that is both meaningful and useful. This domain covers a wide range of applications, including text classification, language translation, sentiment analysis, and more, all of which involve processing and analyzing natural language data.

### NEW QUESTION # 13

What is a key advantage of using dedicated AI clusters in the OCI Generative AI service?

- A. They allow access to unlimited database resources.
- B. They are free of charge for all users.
- C. They provide high performance compute resources for fine-tuning tasks.
- D. They provide faster internet connection speeds.

**Answer: C**

Explanation:

The primary advantage of using dedicated AI clusters in the Oracle Cloud Infrastructure (OCI) Generative AI service is the provision of high-performance compute resources that are specifically optimized for fine-tuning tasks. Fine-tuning is a critical step in the process of adapting pre-trained models to specific tasks, and it requires significant computational power. Dedicated AI clusters in OCI are designed to deliver the necessary performance and scalability to handle the intense workloads associated with fine-tuning large language models (LLMs) and other AI models, ensuring faster processing and more efficient training.

### NEW QUESTION # 14

Which statement best describes the relationship between Artificial Intelligence (AI), Machine Learning (ML), and Deep Learning (DL)?

- Answer: C**

DL is a specialized field within ML that deals with deep neural networks.

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