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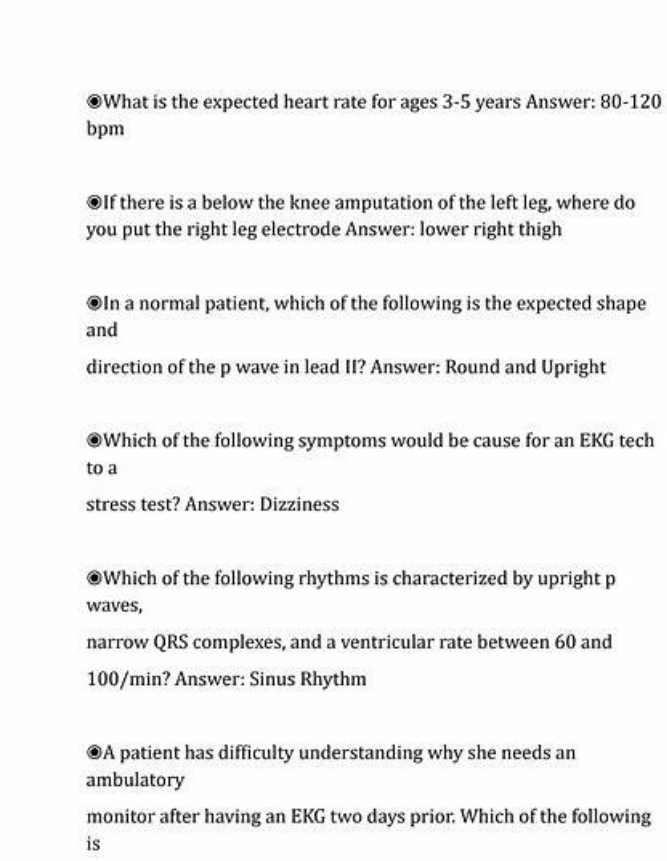

◉What is the expected heart rate for ages 3-5 years Answer: 80-120 bpm

◉If there is a below the knee amputation of the left leg, where do you put the right leg electrode Answer: lower right thigh

◉In a normal patient, which of the following is the expected shape and

direction of the p wave in lead II? Answer: Round and Upright

◉Which of the following symptoms would be cause for an EKG tech to a

stress test? Answer: Dizziness

◉Which of the following rhythms is characterized by upright p waves,

narrow QRS complexes, and a ventricular rate between 60 and

100/min? Answer: Sinus Rhythm

◉A patient has difficulty understanding why she needs an ambulatory

monitor after having an EKG two days prior. Which of the following is

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NVIDIA NCA-GENL Exam Syllabus Topics:

Topic	Details
Topic 1	• This section of the exam measures skills of AI Product Developers and covers how to strategically plan experiments that validate hypotheses, compare model variations, or test model responses. It focuses on structure, controls, and variables in experimentation.
Topic 2	• Experiment Design
Topic 3	• Data Analysis and Visualization: This section of the exam measures the skills of Data Scientists and covers interpreting, cleaning, and presenting data through visual storytelling. It emphasizes how to use visualization to extract insights and evaluate model behavior, performance, or training data patterns.
Topic 4	• Alignment: This section of the exam measures the skills of AI Policy Engineers and covers techniques to align LLM outputs with human intentions and values. It includes safety mechanisms, ethical safeguards, and tuning strategies to reduce harmful, biased, or inaccurate results from models.
Topic 5	• Experimentation: This section of the exam measures the skills of ML Engineers and covers how to conduct structured experiments with LLMs. It involves setting up test cases, tracking performance metrics, and making informed decisions based on experimental outcomes.:
Topic 6	• Prompt Engineering: This section of the exam measures the skills of Prompt Designers and covers how to craft effective prompts that guide LLMs to produce desired outputs. It focuses on prompt strategies, formatting, and iterative refinement techniques used in both development and real-world applications of LLMs.
Topic 7	• LLM Integration and Deployment: This section of the exam measures skills of AI Platform Engineers and covers connecting LLMs with applications or services through APIs, and deploying them securely and efficiently at scale. It also includes considerations for latency, cost, monitoring, and updates in production environments.
Topic 8	• Software Development: This section of the exam measures the skills of Machine Learning Developers and covers writing efficient, modular, and scalable code for AI applications. It includes software engineering principles, version control, testing, and documentation practices relevant to LLM-based development.
Topic 9	• Data Preprocessing and Feature Engineering: This section of the exam measures the skills of Data Engineers and covers preparing raw data into usable formats for model training or fine-tuning. It includes cleaning, normalizing, tokenizing, and feature extraction methods essential to building robust LLM pipelines.

NVIDIA Generative AI LLMs Sample Questions (Q73-Q78):

NEW QUESTION # 73
What is the Open Neural Network Exchange (ONNX) format used for?

- A. Reducing training time of neural networks
- B. Compressing deep learning models
- C. Sharing neural network literature
- D. Representing deep learning models

Answer: D

Explanation:
The Open Neural Network Exchange (ONNX) format is an open-standard representation for deep learning models, enabling

interoperability across different frameworks, as highlighted in NVIDIA's Generative AI and LLMs course. ONNX allows models trained in frameworks like PyTorch or TensorFlow to be exported and used in other compatible tools for inference or further development, ensuring portability and flexibility.
Option B is incorrect, as ONNX is not designed to reduce training time but to standardize model representation. Option C is wrong, as model compression is handled by techniques like quantization, not ONNX. Option D is inaccurate, as ONNX is unrelated to sharing literature. The course states: "ONNX is an open format for representing deep learning models, enabling seamless model exchange and deployment across various frameworks and platforms." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 74
What is the fundamental role of LangChain in an LLM workflow?

- A. To reduce the size of AI foundation models.
- B. To act as a replacement for traditional programming languages.
- C. To orchestrate LLM components into complex workflows.
- D. To directly manage the hardware resources used by LLMs.

Answer: C

Explanation:
LangChain is a framework designed to simplify the development of applications powered by large language models (LLMs) by orchestrating various components, such as LLMs, external data sources, memory, and tools, into cohesive workflows. According to NVIDIA's documentation on generative AI workflows, particularly in the context of integrating LLMs with external systems, LangChain enables developers to build complex applications by chaining together prompts, retrieval systems (e.g., for RAG), and memory modules to maintain context across interactions. For example, LangChain can integrate an LLM with a vector database for retrieval-augmented generation or manage conversational history for chatbots. Option A is incorrect, as LangChain complements, not replaces, programming languages. Option B is wrong, as LangChain does not modify model size. Option D is inaccurate, as hardware management is handled by platforms like NVIDIA Triton, not LangChain.
References:
NVIDIA NeMo Documentation: https://docs.nvidia.com/deeplearning/nemo/user-guide/docs/en/stable/nlp/intro.html LangChain Official Documentation: https://python.langchain.com/docs/get_started/introduction

NEW QUESTION # 75
Which of the following tasks is a primary application of XGBoost and cuML?

- A. Data visualization and analysis
- B. Training deep learning models
- C. Inspecting, cleansing, and transforming data
- D. Performing GPU-accelerated machine learning tasks

Answer: D

Explanation:
Both XGBoost (with its GPU-enabled training) and cuML offer GPU-accelerated implementations of machine learning algorithms, such as gradient boosting, clustering, and dimensionality reduction, enabling much faster model training and inference.

NEW QUESTION # 76
You are in need of customizing your LLM via prompt engineering, prompt learning, or parameter-efficient fine-tuning. Which framework helps you with all of these?

- A. NVIDIA NeMo
- B. NVIDIA Triton
- C. NVIDIA DALI
- D. NVIDIA TensorRT

Answer: A

Explanation:

The NVIDIA NeMo framework is designed to support the development and customization of large language models (LLMs), including techniques like prompt engineering, prompt learning (e.g., prompt tuning), and parameter-efficient fine-tuning (e.g., LoRA), as emphasized in NVIDIA's Generative AI and LLMs course.
NeMo provides modular tools and pre-trained models that facilitate these customization methods, allowing users to adapt LLMs for specific tasks efficiently. Option A, TensorRT, is incorrect, as it focuses on inference optimization, not model customization. Option B, DALI, is a data loading library for computer vision, not LLMs. Option C, Triton, is an inference server, not a framework for LLM customization. The course notes:
"NVIDIA NeMo supports LLM customization through prompt engineering, prompt learning, and parameter- efficient fine-tuning, enabling flexible adaptation for NLP tasks." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA NeMo Framework User Guide.

NEW QUESTION # 77
In Natural Language Processing, there are a group of steps in problem formulation collectively known as word representations (also word embeddings). Which of the following are Deep Learning models that can be used to produce these representations for NLP tasks? (Choose two.)

- A. TensorRT
- B. Kubernetes
- C. WordNet
- D. Word2vec
- E. BERT

Answer: D,E

Explanation:
Word representations, or word embeddings, are critical in NLP for capturing semantic relationships between words, as emphasized in NVIDIA's Generative AI and LLMs course. Word2vec and BERT are deep learning models designed to produce these embeddings. Word2vec uses shallow neural networks (CBOW or Skip- Gram) to generate dense vector representations based on word co-occurrence in a corpus, capturing semantic similarities. BERT, a Transformer-based model, produces contextual embeddings by considering bidirectional context, making it highly effective for complex NLP tasks. Option B, WordNet, is incorrect, as it is a lexical database, not a deep learning model. Option C, Kubernetes, is a container orchestration platform, unrelated to NLP or embeddings. Option D, TensorRT, is an inference optimization library, not a model for embeddings.
The course notes: "Deep learning models like Word2vec and BERT are used to generate word embeddings, enabling semantic understanding in NLP tasks, with BERT leveraging Transformer architectures for contextual representations." References: NVIDIA Building Transformer-Based Natural Language Processing Applications course; NVIDIA Introduction to Transformer-Based Natural Language Processing.

NEW QUESTION # 78
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