

Amazon AIF-C01 Exam Simulations | AIF-C01 Reliable Learning Materials

1) $(2+i)(3-5i) = (x+yi)$ then $(x+y) = ?$
 $(2+i)(3-5i) = 6 - 10i + 3i - 5i^2 = 6 - 10i + 3i - 5(-1) = 6 - 10i + 3i + 5 = 11 - 7i$
 $x = 11 \quad y = -7 \quad 11 + (-7) = 4$
 The answer is 4

2) $a+bi = \frac{2+i}{2-i}$ then $a^2+b^2 = ?$
 $\frac{(2+i)(2+i)}{(2-i)(2+i)} \rightarrow \frac{(2+i)^2}{(2-i)(2+i)} = \frac{4+4i+i^2}{4-i^2} = \frac{4+4i-1}{4-(-1)} = \frac{3+4i}{5}$
 $a+bi = \frac{3}{5} + \frac{4}{5}i \quad a = \frac{3}{5} \quad b = \frac{4}{5}$
 $a^2+b^2 = \frac{9}{25} + \frac{16}{25} = 1$
 The answer is 1

3) $2x^2 - 5x + 3 = 0$
 $a = 2$
 $b = -5$
 $c = 3$
 $\frac{\sqrt{b^2 - 4ac}}{2a} = \frac{\sqrt{(-5)^2 - 4 \times 2 \times 3}}{2 \times 2} = \frac{1}{4} = \text{Not Real}$

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Amazon AIF-C01 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Applications of Foundation Models: This domain examines how foundation models, like large language models, are used in practical applications. It is designed for those who need to understand the real-world implementation of these models, including solution architects and data engineers who work with AI technologies to solve complex problems.

Topic 2	<ul style="list-style-type: none"> Guidelines for Responsible AI: This domain highlights the ethical considerations and best practices for deploying AI solutions responsibly, including ensuring fairness and transparency. It is aimed at AI practitioners, including data scientists and compliance officers, who are involved in the development and deployment of AI systems and need to adhere to ethical standards.
Topic 3	<ul style="list-style-type: none"> Fundamentals of Generative AI: This domain explores the basics of generative AI, focusing on techniques for creating new content from learned patterns, including text and image generation. It targets professionals interested in understanding generative models, such as developers and researchers in AI.
Topic 4	<ul style="list-style-type: none"> Security, Compliance, and Governance for AI Solutions: This domain covers the security measures, compliance requirements, and governance practices essential for managing AI solutions. It targets security professionals, compliance officers, and IT managers responsible for safeguarding AI systems, ensuring regulatory compliance, and implementing effective governance frameworks.
Topic 5	<ul style="list-style-type: none"> Fundamentals of AI and ML: This domain covers the fundamental concepts of artificial intelligence (AI) and machine learning (ML), including core algorithms and principles. It is aimed at individuals new to AI and ML, such as entry-level data scientists and IT professionals.

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AIF-C01 Reliable Learning Materials - AIF-C01 Sample Questions Pdf

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Amazon AWS Certified AI Practitioner Sample Questions (Q25-Q30):

NEW QUESTION # 25

A company built an AI-powered resume screening system. The company used a large dataset to train the model. The dataset contained resumes that were not representative of all demographics. Which core dimension of responsible AI does this scenario present?

- A. Fairness.
- B. Explainability.
- C. Privacy and security.
- D. Transparency.

Answer: A

Explanation:

Fairness refers to the absence of bias in AI models. Using non-representative datasets leads to biased predictions, affecting specific demographics unfairly. Explainability, privacy, and transparency are important but not directly related to this scenario. Reference: AWS Responsible AI Framework.

NEW QUESTION # 26

A company is building a large language model (LLM) question answering chatbot. The company wants to decrease the number of actions call center employees need to take to respond to customer questions.

Which business objective should the company use to evaluate the effect of the LLM chatbot?

- A. Regulatory compliance

- B. Corporate social responsibility
- **C. Average call duration**
- D. Website engagement rate

Answer: C

Explanation:

The business objective to evaluate the effect of an LLM chatbot aimed at reducing the actions required by call center employees should be average call duration.

* Average Call Duration:

* This metric measures the time taken to handle a customer call or query. A successful LLM chatbot should reduce the call duration by efficiently providing answers, minimizing the need for human intervention.

* By decreasing the average call duration, the company can improve call center efficiency, reduce costs, and enhance the user experience.

* Why Option B is Correct:

* Direct Impact: The objective aligns directly with the goal of reducing the number of actions call center employees must take.

* Operational Efficiency: Reducing call duration is a clear indicator of the chatbot's effectiveness in assisting customers without human help.

* Why Other Options are Incorrect:

* A. Website engagement rate: Is unrelated to call center operations.

* C. Corporate social responsibility: Does not relate to call center efficiency.

* D. Regulatory compliance: Is important but does not measure the effectiveness of a chatbot in reducing employee actions.

NEW QUESTION # 27

An online learning company with large volumes of education materials wants to use enterprise search.

- **A. Amazon Kendra**
- B. Amazon Textract
- C. Amazon Personalize
- D. Amazon Comprehend

Answer: A

Explanation:

The correct answer is C - Amazon Kendra, AWS's enterprise search service designed for organizations with large, diverse document repositories. Kendra uses machine learning and natural language understanding (NLU) to provide semantic search, meaning it retrieves results based on meaning rather than keyword matching. According to AWS documentation, Kendra is ideal for educational, enterprise, and knowledge- management scenarios where users need fast, accurate retrieval across PDFs, HTML, Office documents, FAQs, and multimedia transcripts. Kendra connectors can index content from S3, SharePoint, LMS platforms, and internal databases, making it perfect for large volumes of training materials. Amazon Comprehend (A) is for NLP tasks like entity extraction, not enterprise search. Amazon Textract (B) extracts text from PDFs and scanned materials but does not provide search capabilities. Amazon Personalize (D) is for personalized recommendations, not document retrieval. Kendra is purpose-built for enterprise search and aligns directly with the company's needs.

Referenced AWS Documentation:

* Amazon Kendra Developer Guide - Enterprise Search

* AWS ML Specialty Guide - Intelligent Search Systems

NEW QUESTION # 28

An AI practitioner is using an Amazon Bedrock base model to summarize session chats from the customer service department. The AI practitioner wants to store invocation logs to monitor model input and output data.

Which strategy should the AI practitioner use?

- A. Configure AWS Audit Manager as the logs destination for the model.
- B. Configure AWS CloudTrail as the logs destination for the model.
- **C. Enable invocation logging in Amazon Bedrock.**
- D. Configure model invocation logging in Amazon EventBridge.

Answer: C

NEW QUESTION # 29

A company is using Amazon Bedrock Agents to build an application to automate business workflows.

- A. To invoke foundation models (FMs) to process visual, audio, and text inputs
- B. To provide users with full control of querying external data sources and APIs
- C. To evaluate user inputs and orchestrate actions for multiple tasks
- D. To enhance foundation models (FMs) with a prompting strategy

Answer: C

Explanation:

The correct answer is D. Amazon Bedrock Agents are used to orchestrate and execute complex workflows by connecting foundation models with APIs, databases, and tools. According to AWS documentation, agents interpret user inputs, plan the necessary steps, call external APIs or systems, and return structured results. This allows the model to go beyond text generation into full automation workflows—such as booking tasks, querying internal systems, or summarizing reports. Option A describes multi-modal models, B refers to prompt tuning, and C misstates control delegation; agents act autonomously based on model reasoning. Thus, Bedrock Agents function as intelligent orchestrators, handling multi-step task execution through integrated tool use.

Referenced AWS AI/ML Documents and Study Guides:

Amazon Bedrock Developer Guide - Agents Overview

AWS Generative AI Best Practices - Workflow Orchestration

NEW QUESTION # 30

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