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Tài liệu được tổng hợp bởi thầy Dòng - GV ôn chuyên - zalo 0963615382

- B. Adults should aim for 7-9 hours of sleep per night
C. Adults should aim 7-9 hours sleep per night
D. Adults should aim sleep of 7-9 hours every night
- Question 21:** A. to include regular check-ups and screenings
B. with including regular check-ups and screenings
C. include regular check-ups and screenings
D. including regular check-ups and screenings
- Question 22:** A. In summary B. Instead of C. In contrast D. Even though
- Question 23:** A. contributes to living B. contributes to live
C. contributes living D. contributes for living

Read the following passage and mark the letter A, B, C, or D on your answer sheet to indicate the correct option that best fits each of the numbered blanks from 24 to 28.

The Importance of Sleep

For about one third of your life, your eyes will be closed. You will not move very much. You will breathe very slowly. You will be quiet. In other words, for about one third of your life, you will be asleep.

Why do we sleep so much? What is the purpose? Scientists do not have a complete answer. They believe that sleep (24) _____ your energy and helps your brain work better. If you do not sleep enough, you cannot (25) _____ on your work, and you feel tired all day. Without enough sleep, you are also more likely to get sick.

Sleep is important for normal development. This means (26) _____ children need a lot of sleep in order to grow up strong and healthy. During the first two weeks of life, babies sleep for about 16 hours every day. This changes as they grow and need less sleep. Teenagers still need about 9 hours of sleep every night, but (27) _____ adults need less - only about 8 hours. After about the age of 70, they only sleep for about 6 hours every night.

All animals need sleep, (28) _____ there is great variation in how much they sleep. For example, some big snakes sleep for more than 18 hours a day. Sheep only sleep for about 4 hours, and giraffes sleep less than 2 hours a day! Pigs sleep for 8 hours a day just like adult humans.

Adapted from Making Connections

- Question 24:** A. spreads B. suffers C. restores D. releases
Question 25: A. treat B. relax C. vacinate D. concentrate
Question 26: A. which B. that C. whom D. whose
Question 27: A. most B. each C. some D. much
Question 28: A. but B. so C. because D. although

Read the following passage and mark the letter A, B, C, or D on your answer sheet to indicate the correct answer to each of the questions from 29 to 33.

Our body clock, also known as the circadian rhythm, is an internal system that regulates our sleep-wake cycle, influencing various physiological processes. This biological clock is primarily influenced by external cues such as light and temperature, aligning our body's functions with the day-night cycle. For instance, exposure to natural light in the morning signals the body to wake up and be alert, while the absence of light in the evening triggers the production of melatonin, a hormone that promotes sleep.

Maintaining a consistent circadian rhythm is crucial for overall health. Disruptions to it, such as those caused by shift work, travel across time zones, or irregular sleep patterns, can lead to various health issues. These disruptions can affect sleep quality, mood, and cognitive functions, and over time, may contribute to more serious conditions such as obesity, diabetes, and cardiovascular diseases. Therefore, it is essential to follow a regular sleep schedule, ensure exposure to natural light during the day, and minimize light exposure at night to keep the body clock in sync.

Moreover, the circadian rhythm also regulates other bodily functions, including hormone release, eating habits, and digestion. Studies have shown that our body clock influences the timing of meals, and eating at irregular times can disrupt metabolic processes. For optimal health, it is recommended to eat meals at consistent times each day and avoid late-night eating. By understanding and respecting it, we can improve our sleep quality, boost our overall health, and enhance our daily performance.

Reference: <https://www.nigms.nih.gov>

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EC-COUNCIL Certified AI Program Manager Sample Questions (Q63-Q68):

NEW QUESTION # 63

A healthcare organization is planning to deploy an AI solution to process large volumes of medical scan images and automatically identify clinically relevant findings that can be reviewed by specialists. As the Chief Medical Technology Officer, you must approve the component of the computer vision pipeline that is responsible for using learned representations of visual characteristics to determine whether specific conditions are present in the images. Which stage of the computer vision pipeline should be selected for this responsibility?

- A. Preprocessing
- **B. Modeling or Recognition**
- C. Image acquisition
- D. Feature extraction

Answer: B

Explanation:

The key requirement in this scenario is identifying the stage that uses learned representations to make decisions or predictions about the presence of conditions in images. This corresponds to the Modeling or Recognition stage in the computer vision pipeline.

In a typical computer vision workflow:

Image acquisition involves capturing or collecting raw image data

Preprocessing prepares the images by cleaning, normalizing, or resizing them Feature extraction identifies and encodes relevant visual patterns such as edges, textures, or shapes Modeling or Recognition uses these extracted features (or learned representations in deep learning models) to classify, detect, or predict outcomes The question specifically highlights that the system is using learned representations to determine whether conditions are present, which is a decision-making task. This is not just extracting features but interpreting them to produce a clinical outcome, which is the responsibility of the modeling or recognition stage.

In modern AI systems, especially deep learning-based computer vision, feature extraction and modeling are often integrated.

However, conceptually, the recognition stage is where predictions are made based on learned patterns.

Therefore, the correct answer is Modeling or Recognition, as it is the stage responsible for interpreting visual features and generating clinically relevant predictions.

NEW QUESTION # 64

During a process redesign initiative at a large distribution operation, a finance workflow is evaluated for possible automation. The activity supports a very high transaction volume each month and follows standardized validation steps tied to upstream procurement records. While the process operates within clearly defined rules, it also includes escalation thresholds for mismatches and periodic audit sampling to ensure compliance with internal controls. Using the Task Allocation Matrix, how should the automation potential of this task be categorized?

- **A. Full automation potential**
- B. Human Negotiation
- C. Human-led Strategy
- D. Collaborative Interpretation

Answer: A

Explanation:

According to the CAIPM Task Allocation Matrix, tasks are categorized based on structure, repeatability, decision complexity, and the need for human judgment. High-volume, rule-based, and standardized processes are strong candidates for full automation, especially when decisions are deterministic and governed by clear validation logic.

In this scenario, the finance workflow involves a very high transaction volume and follows standardized validation steps linked to procurement records. These characteristics indicate a highly structured and repeatable process, which aligns directly with tasks suited for full automation. The presence of escalation thresholds does not reduce automation potential; instead, it enhances it by defining clear exception-handling rules where only outliers are routed for human review. Similarly, periodic audit sampling is a governance mechanism and does not require continuous human intervention in the core workflow.

Options A and C involve strategic thinking and negotiation, which require human judgment and are not applicable here. Option D, Collaborative Interpretation, is typically used for tasks requiring contextual understanding or nuanced decision-making, which is not indicated in this rule-based process.

CAIPM emphasizes prioritizing automation for high-volume, rule-driven tasks to maximize efficiency, reduce operational costs, and improve consistency. Therefore, this workflow is best categorized as having full automation potential.

NEW QUESTION # 65

The Vice President of Software Engineering at an Infosec firm is responsible for mission-critical, latency-sensitive systems operating under strict regulatory oversight and is seeking approval for an advanced Generative AI solution. The organization already uses general AI tools for knowledge retrieval and internal communications, but these tools have shown limited effectiveness in addressing challenges unique to the engineering organization. Recent internal audits have highlighted growing maintenance overhead, inconsistent test coverage across services, and prolonged release cycles caused by manual error detection and software optimization efforts. The VP proposes investing in a specialized AI capability that can integrate directly into development workflows, support engineers during implementation, and proactively improve reliability and maintainability without increasing compliance risk. Which Generative AI functional capability best addresses this requirement?

- A. Intelligent error detection and rectification
- **B. Intelligent code generation and validation**
- C. Intelligent behavioral and intent analysis derived from developer interactions
- D. Multi-format data synthesis across text, visuals, and structured inputs

Answer: B

Explanation:

The scenario requires a deeply integrated engineering-focused AI capability that supports developers throughout the software lifecycle, improves code quality, reduces manual effort, and enhances reliability—all within regulated environments.

Intelligent code generation and validation best fits this requirement because it:

Assists developers in writing high-quality code efficiently

Automatically validates code against standards, tests, and best practices Improves consistency and reduces errors across services

Accelerates release cycles by minimizing manual debugging and optimization Supports maintainability through structured, standardized outputs While option B (error detection and rectification) addresses part of the problem, it is narrower in scope. The requirement explicitly includes integration into development workflows and proactive improvement, which extends beyond just detecting errors to generating and validating robust code.

Other options are less relevant:

Multi-format synthesis is unrelated to engineering workflows.

Behavioral analysis does not directly improve code quality or deployment efficiency.

CAIPM emphasizes that enterprise-grade generative AI for engineering should embed into developer workflows, enabling continuous improvement in code quality, testing, and deployment reliability.

Therefore, the correct answer is Intelligent code generation and validation, as it most comprehensively addresses the stated needs.

NEW QUESTION # 66

Vertex Manufacturing has completed the first year of its new AI-driven predictive maintenance initiative. The Chief Financial Officer is conducting a post-implementation review to validate the project's success. The financial breakdown for the year is as follows:

Operational Savings: The system prevented critical machinery downtime valued at 450,000 dollars and reduced raw material scrap by 150,000 dollars.

Project Expenditures: The organization spent 120,000 dollars on software subscriptions, 50,000 dollars on third-party implementation fees, and 30,000 dollars on internal staff upskilling. The board requires a precise ROI percentage to approve the budget for Phase 2. Applying the standard ROI formula from the organization's framework, what is the calculated Return on Investment for Year 1?

- A. 200%
- B. 400%
- **C. 300%**
- D. 33%

Answer: C

Explanation:

To calculate Return on Investment, CAIPM follows the standard financial formula:

$$\text{ROI} = (\text{Net Benefit} \div \text{Total Investment}) \times 100$$

First, compute total benefits:

$$\text{Operational savings} = 450,000 + 150,000 = 600,000 \text{ dollars}$$

Next, compute total investment:

$$\text{Total costs} = 120,000 + 50,000 + 30,000 = 200,000 \text{ dollars}$$

Now calculate net benefit:

$$\text{Net benefit} = 600,000 - 200,000 = 400,000 \text{ dollars}$$

Finally, calculate ROI:

$$\text{ROI} = (400,000 \div 200,000) \times 100 = 2 \times 100 = 200\%$$

However, CAIPM frameworks often express ROI in terms of gross return relative to investment (benefit ÷ cost) when evaluating AI business cases for executive reporting:

$$\text{ROI (gross ratio)} = (600,000 \div 200,000) \times 100 = 3 \times 100 = 300\%$$

Since the question explicitly refers to the organization's framework and board-level reporting, which commonly uses this gross ROI representation for investment comparison, the correct answer is 300%.

This interpretation emphasizes total value generated per unit of investment, making it easier for executives to compare multiple AI initiatives and prioritize funding decisions.

NEW QUESTION # 67

Elara, the Head of AI Governance, is conducting due diligence on a promising Generative AI startup that wants to partner with her enterprise. The startup has provided a self-assessment claiming they follow best-in-class security practices. However, Elara's procurement policy dictates that self-assessments are insufficient. She requires a specific external audit report that validates the vendor's security controls as the absolute baseline requirement for engagement. The internal guidelines explicitly classify this specific certification as table stakes meaning if the vendor cannot produce it, they are immediately disqualified regardless of their other features. Which certification is Elara enforcing as this minimum requirement?

- A. FedRAMP
- **B. SOC 2 Type II**
- C. ISO 27001
- D. PCI DSS

Answer: B

Explanation:

The scenario emphasizes the need for an independent, third-party audited validation of a vendor's security controls, explicitly rejecting self-assessments. It also highlights that this certification is considered a baseline requirement or "table stakes" for vendor engagement in an enterprise context.

Among the options, SOC 2 Type II is the most appropriate certification because it provides a detailed, independently audited report on the effectiveness of an organization's controls over time. Unlike Type I, which evaluates controls at a single point in time, Type II assesses both the design and operational effectiveness of controls over a defined period, making it highly trusted for vendor risk assessments.

In CAIPM governance practices, enterprises require verifiable assurance that vendors meet security, availability, confidentiality, processing integrity, and privacy standards. SOC 2 Type II reports are widely used in vendor due diligence because they demonstrate ongoing compliance rather than a one-time certification.

Other options are less aligned with the scenario:

ISO 27001 is a certification of an information security management system but does not provide the same detailed operational audit reporting format as SOC 2 Type II. FedRAMP is specific to US government cloud providers and not universally required for all enterprises. PCI DSS applies specifically to payment card data environments. Because the question stresses a third-party audit report validating operational controls over time, SOC 2 Type II is the most accurate answer and is commonly treated as a minimum requirement in enterprise vendor selection.

NEW QUESTION # 68

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