SOALAN KBAT SAINS PT3

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Soalan KBAT Sains PT3: Uji Kemahiran Berfikir Aras Tinggi

Soalan KBAT (Kemahiran Berfikir Aras Tinggi) dalam Sains PT3 direka untuk menguji kebolehan pelajar menganalisis, menilai, dan mengaplikasi pengetahuan mereka. Berikut adalah beberapa soalan KBAT beserta jawapannya:

Soalan 1: Analisis Objek X mempunyai jisim 50 g dan isipadu 20 cm³. Tentukan ketumpatan objek X.

Jawapan: Ketumpatan = Jisim / Isipadu = 50 g / 20 cm³ = 2.5 g/cm³

Soalan 2: Penilaian Dua magnet diikat bersama dengan kutub sejenis menghadap keluar. Magnet ini diletakkan dekat dengan magnet ketiga. Jelaskan perubahan yang akan berlaku pada magnet ketiga.

Jawapan: Magnetisme magnet ketiga akan melemah. Ini kerana kutub sejenis magnet menarik kutub tidak sejenis dan menolak kutub sejenis. Kutub sejenis pada magnet yang diikat akan menolak kutub sejenis pada magnet ketiga, menyebabkan magnetismenya menurun.

Soalan 3: Aplikasi Sebuah kereta bergerak dengan halaju 50 km/j selama 2 jam. Setelah itu, kereta tersebut memecut dan bergerak dengan halaju 70 km/j selama 1 jam. Hitung jarak keseluruhan yang dilalui kereta tersebut.

Jawapan: Jarak = Kelajuan x Masa Jarak 1 = 50 km/j x 2 jam = 100 km Jarak 2 = 70 km/j x 1 jam = 70 km Jarak keseluruhan = 100 km + 70 km = 170 km

Soalan 4: Analisis Sebuah lampu pijar menyala dengan kecerahan maksimum pada suhu 27°C. Apabila suhu lampu meningkat, kecerahan lampu akan berkurang.

Jelaskan hubungan antara suhu dan kecerahan lampu pijar.

Jawapan: Hubungan antara suhu dan kecerahan lampu pijar adalah songsang. Apabila suhu lampu meningkat, filamen lampu akan menjadi lebih nipis dan rapuh, menyebabkan rintangannya meningkat. Rintangan yang lebih tinggi akan mengurangkan arus yang mengalir melalui lampu, yang seterusnya akan mengurangkan kecerahan cahaya yang dipancarkan.

Soalan 5: Penilaian Seorang saintis telah membangunkan sejenis cat yang boleh menyerap haba matahari dan menukarkannya menjadi tenaga elektrik. Cat ini dicat pada bumbung bangunan. Berikan satu kelebihan dan satu kekurangan menggunakan cat jenis ini.

Jawapan: Kelebihan:

- Mengurangkan penggunaan tenaga untuk penyejukan bangunan, kerana haba matahari diserap dan ditukar menjadi tenaga elektrik.

Kekurangan:

- Harga cat yang mahal, yang boleh menjadi penghalang untuk bangunan yang lebih kecil atau kurang kemampuan.

The Sociology Project: An Introduction

What is the Sociology Project? The Sociology Project is a collaborative research initiative that seeks to understand the social factors that shape human behavior and society. It brings together sociologists from around the world to conduct research, share knowledge, and develop theories.

What are the Goals of the Sociology Project? The main goals of the Sociology Project are to:

- Investigate the relationship between social structure and human behavior
- Understand the causes and consequences of social problems
- Develop evidence-based solutions to societal challenges
- Contribute to the advancement of sociological theory

How is the Sociology Project Organized? The Sociology Project is organized into four main research areas:

- Social Inequality
- Social Institutions
- Social Change
- Social Psychology

Each research area is led by a team of sociologists who conduct studies, publish their findings, and collaborate with scholars in other fields.

What are the Benefits of the Sociology Project? The Sociology Project provides several benefits, including:

- **Increased knowledge about society:** By conducting research on various social issues, the project helps us better understand how societies work.
- **Evidence-based policymaking:** The findings of the Sociology Project can inform policymakers and other decision-makers to create effective policies.
- **Improved social well-being:** By understanding the root causes of social problems, the project can help us develop solutions to address them and improve people's lives.

How can I Get Involved in the Sociology Project? There are several ways to get involved in the Sociology Project, such as:

- **Becoming a member:** Sociologists and other professionals can become members of the project and contribute their research and expertise.
- **Participating in research studies:** The project conducts numerous research studies, and interested individuals can participate by taking surveys or providing interviews.
- **Reading and sharing project publications:** The project publishes research papers, books, and articles that are available for public access.

What is the secret key in Bitcoin? What is a Bitcoin Private Key? A Bitcoin private key is a 256-bit number, which means it's a string of 256 binary digits (0s and 1s).

Creating a private key by flipping a coin 256 times isn't secure, so it's best to use specialized tools for generating high-entropy private keys.

How much will 1 Bitcoin be worth in 2030?

When did Bitcoin reach its all-time high price of nearly $20,000? But it made its actual move in the final quarter of 2020. It shattered its all-time high by breaching $15,000 in November 2020, moving above $20,000 in December 2020, and ending the year at around $29,000 with a market cap of more than $539 billion.

Who owns the most Bitcoin? So, who are the top holders of BTC? According to the Bitcoin research and analysis firm River Intelligence, Satoshi Nakamoto, the anonymous creator behind Bitcoin, is listed as the top BTC holder as of 2024. The company notes that Satoshi Nakamoto holds about 1.1m BTC tokens in about 22,000 different addresses.

How do I get my Bitcoin key?

What is the secret phrase in Bitcoin? What is a secret recovery phrase? Your secret recovery phrase is the key to your wallet and controls access to all your crypto. A secret recovery phrase is a set of words that correspond to numbers. These numbers make up a seed integer that generates all of the private keys in your wallet.

How high can Bitcoin realistically go? Notably, Cathie Wood, CEO of Ark Invest, predicted that bitcoin could reach an astounding $1.48 million by 2030. Obviously, the world's oldest cryptocurrency has come a long way since its first recorded price of less than a cent.

What could Bitcoin be worth in 20 years? Max Keiser predicts Bitcoin to be worth $200K in 2024. Fidelity predicts one Bitcoin will be worth $1B in 2038. Hal Finney predicted $22M per Bitcoin by 2045.

How many bitcoins are left to mine? According to the Bitcoin protocol, the maximum number of bitcoins that can be created is 21 million. As of March 2023, approximately 18.9 million bitcoins have been mined, meaning there are around 2.1 million bitcoins left to be mined.

How much would I have if I invested $10,000 in Bitcoin in 2010? To be exact, a Bitcoin investor who purchased $10,000 worth of Bitcoin in 2010 would have earned $201.56 mln. In contrast, an investor who purchased $10,000 worth of gold in 2010 would have experienced a negative return of $9,981.

How much is the transaction fee for $1000 dollars in Bitcoin? Cost Breakdown for $1,000 of Bitcoin Here's how the fees would add up: Retail Fee: Let's consider the higher end of the retail fee range ($4.95) for this calculation. $4.95 per transaction x 2 transactions = $9.90. Bitcoin Purchase/Conversion Fee: $1,000 x 11% = $110.

When was the cheapest time to buy Bitcoin? Best Time of the Week to Buy Cryptocurrency Generally, cryptocurrency prices start low on Monday and rise throughout the week. When the weekend hits, prices tend to drop until market activity begins the following Monday.

How many millionaires own Bitcoin? With that in mind, the actual numbers behind the Bitcoin distribution are still surprising: 46.8 million wallet addresses have more than $1. 10,000 wallets have more than $10 million in Bitcoin. 100,000 wallets have more than $1 million.

Who is the billionaire invested in Bitcoin? Michael Saylor, CEO of MicroStrategy, a software firm that has made heavy investments in bitcoin, is now worth an estimated $4.4 billion, compared to $760 million last year. Brian Armstrong, CEO of crypto exchange Coinbase, is worth an estimated $11.2 billion, up from just $2.2 billion last year.

Which government has the most Bitcoin?

What is the secret key of Bitcoin? A cryptocurrency private key is a randomly generated number usually converted to 64-digit hexadecimal format. Private keys represent control and ownership of cryptocurrency. If your keys are stolen or lost, your crypto is gone.

How can you tell if someone is a crypto scammer? Signs of crypto scams include poorly written white papers, excessive marketing pushes, and get-rich-quick claims. Regulatory agencies, such as your state's consumer protection office or the

Consumer Protection Bureau, are the best places to contact if you suspect you've been the victim of a scam.

What is the secret key in Coinbase? A string of letters and numbers that is used to access and spend cryptocurrencies or NFTs stored in a wallet. A Seed Phrase represents your private keys within a wallet. Neither your private keys or seed phrase should ever be shared with anyone otherwise they could gain access to your wallet and steal your funds.

What is the 3 letter code for Bitcoin? It is most commonly represented with the symbol ? and the currency code BTC.

What is the 24-word passphrase? The passphrase protects your crypto assets if your 24-word recovery phrase were to be compromised. To access passphrase-protected accounts, an attacker will need your recovery phrase as well as your passphrase. Each different passphrase unlocks a unique set of secret accounts.

What is the 25th seed word? The passphrase (25th word) is an advanced security feature on the D'CENT Biometric hardware wallet. It adds an extra word to your existing mnemonic code (24 words) to create an entirely new set of private keys (accounts).

What is the private key code of bitcoin? A private key is an encrypted alphanumeric code that permits access to your bitcoin or cryptocurrency holdings. It is the only true way of proving that you are the owner.

What is the secret key for? Definitions: A cryptographic key that is used with a (symmetric) cryptographic algorithm that is uniquely associated with one or more entities and is not made public.

How do I find my private key?

What does a bitcoin public key look like? A public key is just a point on an elliptic curve. The final public key is these coordinates in hexadecimal. The elliptic curve is symmetrical along the x-axis, so a compressed public key only needs to store the full x-coordinate and whether the y-coordinate is even or odd.

The Theory of Environmental Policy: Wallace E. Oates

Introduction Wallace E. Oates, a renowned environmental economist, proposed a comprehensive theory of environmental policy that provides a framework for understanding government intervention in environmental issues. This theory addresses key questions related to the nature and extent of environmental problems, the role of government, and the design of effective policies.

Question 1: What are the main causes of environmental problems? Answer: Oates identifies three primary causes:

- **Externalities:** Market failures where individuals or firms impose costs or benefits on others without compensation.
- **Property rights:** Ambiguous or unenforceable property rights can lead to overuse or degradation of common resources.
- **Public goods:** Environmental resources often have characteristics of public goods, making market provision inefficient.

Question 2: What is the role of government in addressing environmental problems? Answer: Oates argues that government intervention is necessary when:

- Externalities or property rights failures prevent markets from achieving efficient outcomes.
- Public goods are underprovided by private firms.
- The costs of environmental degradation are significant and exceed the benefits of economic activity.

Question 3: What are the different types of environmental policies? Answer: Oates classifies environmental policies into three main categories:

- **Regulatory:** Command-and-control measures that mandate specific actions or emissions standards.
- **Incentive-based:** Policies that use taxes, subsidies, or tradable permits to encourage or discourage desired behaviors.
- **Informational:** Policies that provide information to consumers and firms to promote environmentally responsible decision-making.

Question 4: How can environmental policies be designed effectively? Answer: Oates emphasizes the importance of considering:

- **Cost-effectiveness:** Choosing policies that minimize the cost of achieving environmental objectives.
- **Equity:** Ensuring that policies do not disproportionately burden particular groups or regions.
- **Flexibility:** Designing policies that adapt to changing circumstances and technological advancements.

Question 5: What are the limitations of environmental policies? Answer: Oates acknowledges that environmental policies face challenges such as:

- **Enforcement:** Difficulties in monitoring and enforcing regulations.
- **Unintended consequences:** Policies may have unintended negative effects on other sectors or groups.
- **Political feasibility:** Policymakers must balance environmental goals with other economic and social considerations.

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