

#1. Which blockchain platform is known for its focus on providing privacy and anonymity in transactions?

☐

Monero

☐

Bitcoin

☐

Ethereum

☐

Litecoin

☐

Ripple

#2. What is the purpose of a nonce in a proof of work consensus algorithm?

☐

To adjust the difficulty of mining

☐

To encrypt transaction data

☐

To verify the transaction history

☐

To generate a public address

☐

To validate the consensus algorithm

#3. What is the function of a token in a blockchain ecosystem?

☐

A digital asset representing ownership or utility

☐

A cryptographic hash function

☐

A form of private key

☐

A type of consensus algorithm

☐

A way to bundle transactions

#4. Which blockchain platform is designed for facilitating cross-border payments and remittances?

☐

Ripple

☐

Ethereum

☐

Bitcoin

☐

Stellar

☐

EOS

#5. What is the purpose of a gas fee in the Ethereum blockchain?

☐

To incentivize miners to process transactions

☐

To validate the consensus algorithm

☐

To facilitate peer-to-peer transactions

☐

To create and verify smart contracts

☐

To adjust the difficulty of mining

#6. What is the main advantage of a permissioned blockchain compared to a public one?

☐

Greater control over who participates

☐

High scalability

☐

Enhanced privacy

☐

Improved performance

☐

Open and transparent for anyone to join

#7. Which blockchain platform uses the “Solidity” programming language for smart contract development?

☐

Ethereum

☐

Bitcoin

☐

Ripple

☐

Litecoin

☐

Cardano

#8. What is a 51% attack in the context of blockchain security?

☐

When an entity gains control of over 50% of the network's mining power

☐

When an entity gains control of over 50% of the network's nodes

☐

When an entity successfully hacks a smart contract

☐

When an entity controls 51% of the cryptocurrency supply

☐

When an entity achieves 51% consensus in a consortium blockchain

#9. Which consensus algorithm aims to achieve consensus by ensuring that each node in the network has an equal chance of validating a block?

☐

Proof of Work (PoW)

☐

Proof of Stake (PoS)

☐

Proof of Authority (PoA)

☐

Proof of Burn (PoB)

☐

Proof of Activity (PoA)

#10. What is the purpose of a cold wallet in cryptocurrency storage?

☐

To store cryptocurrency offline and protect it from hacking

☐

To mine new blocks

☐

To create smart contracts

☐

To facilitate peer-to-peer transactions

☐

To validate consensus rules

#11. Which type of attack involves flooding a network with a large volume of transactions to overwhelm its capacity?

☐

Denial of Service (DoS)

☐

Sybil Attack

☐

51% Attack

☐

Eclipse Attack

☐

Double-Spending Attack

#12. What is the function of a “soft fork” in blockchain technology?

☐

A backward-compatible upgrade to the protocol

☐

A type of cryptographic hash function

☐

A secure way to store private keys

☐

A type of consensus mechanism

☐

A type of blockchain token

#13. Which blockchain platform is designed for creating and executing smart contracts, particularly in enterprise settings?

☐

Corda

☐

Tezos

☐

Truffle

☐

VeChain

☐

R3

#14. What is the role of a validator in a proof of stake consensus algorithm?

☐

To create new blocks and validate transactions

☐

To mine new blocks

☐

To validate the consensus algorithm

☐

To generate a public address

☐

To secure private keys

#15. What is the primary benefit of using a consortium blockchain over a public one?

☐

Greater control and privacy for a group of known participants

☐

High scalability

☐

Enhanced security and transparency

☐

Improved performance

☐

Open and transparent for anyone to join

#16. What is the purpose of a consensus algorithm in a blockchain network?

☐

To achieve agreement on the state of the ledger

☐

To encrypt transaction data

☐

To adjust the difficulty of mining

☐

To create a digital signature

☐

To validate the consensus rules

#17. What does the term “immutable” mean in the context of blockchain technology?

☐

Unable to be changed or altered

☐

Easily modifiable

☐

Highly scalable

☐

Rapidly evolving

☐

Centralized and controlled

#18. Which blockchain platform is known for its focus on facilitating supply chain management?

☐

VeChain

☐

Bitcoin

☐

Ethereum

☐

Stellar

☐

NEO

#19. What is the primary advantage of using a blockchain for supply chain management?

☐

Increased transparency and traceability

☐

Decreased security risks

☐

Lower operational costs

☐

Faster transaction processing

☐

Centralized control

#20. What is the purpose of a “hard fork” in blockchain technology?

☐

A non-backward-compatible upgrade to the protocol

☐

A type of cryptographic hash function

☐

A secure way to store private keys

☐

A type of consensus mechanism

☐

A type of blockchain token

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