

#1. What is the primary purpose of a blockchain in a decentralized network?

- To provide security and authentication
- To record and verify transactions
- To regulate cryptocurrency markets
- To create a central authority
- To increase transaction costs

#2. Which consensus algorithm is commonly used in blockchain networks?

- Proof of Work (PoW)
- Proof of Stake (PoS)
- Proof of Authority (PoA)
- Proof of Transaction (PoT)
- Proof of Immutability (PoI)

#3. What is the main advantage of a public blockchain compared to a private one?

- High scalability
- Greater control over who participates
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Enhanced privacy

Improved performance

Open and transparent for anyone to join

#4. Which term refers to the process of combining multiple transactions into a single block on a blockchain?

Transaction Bundling

Block Merging

Transaction Aggregation

Block Compiling

Transaction Pooling

#5. What is the purpose of a cryptographic hash function in blockchain technology?

Data encryption

Data compression

Data validation

Data obfuscation

Data authentication

#6. In a blockchain, what is the role of a node?

- Validate transactions and maintain a copy of the ledger
- Mine new blocks and create new coins
- Create and verify smart contracts
- Facilitate peer-to-peer transactions
- Conduct security audits

#7. Which type of blockchain allows anyone to read, send transactions, and participate in the consensus process?

- Public
- Private
- Consortium
- Permissioned
- Hybrid

#8. What is a smart contract in the context of blockchain?

- A legally binding agreement written in code
- A complex encryption algorithm
- A secure way to store private keys

- A type of consensus mechanism
 - A type of blockchain token
- #9. Which blockchain platform is known for enabling the creation of decentralized applications (DApps)?

- Ethereum
- Bitcoin
- Ripple
- Litecoin
- Cardano

#10. What is a fork in the context of blockchain technology?

- A type of consensus algorithm
- A software update for a blockchain
- A cryptographic hash function
- A form of public-private key pair
- A digital signature

#11. What does the term “double-spending” refer to in the context of cryptocurrencies?

- Spending the same cryptocurrency twice
- Spending a large amount of cryptocurrency
- Spending cryptocurrency on luxury items
- Spending cryptocurrency on investments
- Spending cryptocurrency on necessities

#12. What is the purpose of a private key in cryptocurrency transactions?

- To verify ownership and authorize transactions
- To encrypt and secure the transaction
- To broadcast the transaction to the network
- To generate a public address
- To verify the transaction history

#13. Which consensus algorithm aims to achieve consensus through a combination of proof of work and proof of stake?

- Delegated Proof of Stake (DPoS)
- Practical Byzantine Fault Tolerance (PBFT)
- Delegated Byzantine Fault Tolerance (dBFT)
- Proof of Burn (PoB)

Proof of Activity (PoA)

#14. What is a genesis block in the context of blockchain technology?

The first block in a blockchain

A specialized mining hardware

A type of cryptographic hash function

The highest value cryptocurrency

A form of private key

#15. Which term refers to the process of distributing new cryptocurrency coins to the network?

Mining

Staking

Minting

Forging

Validating

#16. What is the primary function of a blockchain explorer?

To view and analyze blockchain transactions

To mine new blocks

To create smart contracts

To secure private keys

To validate consensus rules

#17. Which blockchain platform is specifically designed for enterprise-level applications?

Hyperledger Fabric

EOS

TRON

Stellar

NEO

#18. In blockchain technology, what is the purpose of a Merkle tree?

To efficiently verify the contents of a block

To encrypt the data in a block

To create a digital signature

To facilitate peer-to-peer transactions

To validate the consensus algorithm

#19. Which type of blockchain is controlled by a single entity or organization?

Private

Public

Consortium

Permissioned

Hybrid

#20. What is a permissioned blockchain?

A blockchain that requires authorization to join

A blockchain that requires permission to read

A blockchain that requires a private key for access

A blockchain that requires a special license to operate

A blockchain that requires a specific token to participate

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