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Blockchain-Fundamentals

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Question: 1

Which consensus mechanism in blockchain requires validators to hold a certain amount of cryptocurrency as collateral?

Response:

- A. Proof of Work (PoW)
- B. Proof of Stake (PoS)
- C. Delegated Proof of Stake (DPoS)
- D. Proof of Authority (PoA)

Answer: B

Question: 2

What are key considerations when implementing blockchain in governmental systems?

(Choose Three)

Response:

- A. Ensuring compliance with legal standards
- B. Keeping all data public
- C. Managing scalability to handle large volumes of data
- D. Securing against unauthorized data access

Answer: A,C,D

Question: 3

What advantage does a decentralized application (DApp) have over traditional centralized applications?

Response:

- A. Lower costs for data storage
- B. Increased central control over user data
- C. Resistance to censorship and downtime
- D. Easier regulatory compliance

Answer: C

Question: 4

For blockchain technology in healthcare, what is a critical privacy consideration?

Response:

- A. Fast access to medical records
- B. Transparent access to drug formulas
- C. Protection of patient data
- D. Unlimited data storage

Answer: C

Question: 5

How does blockchain ensure data integrity?

Response:

- A. Data encryption
- B. Data fragmentation
- C. Consensus algorithms
- D. External audits

Answer: C

Question: 6

How does blockchain technology enhance transparency in business processes?

Response:

- A. By allowing undisclosed private transactions
- B. By decentralizing data storage
- C. By providing a public ledger accessible to authorized users
- D. By restricting access to transaction data

Answer: C

Question: 7

When considering the implementation of a blockchain solution for digital identities, which characteristic is most beneficial?

Response:

- A. Centralized management
- B. Single-point of failure
- C. Immutable transaction records
- D. Frequent data deletion capabilities

Answer: C

Question: 8

Which type of blockchain is ideal for a group of companies that want to maintain privacy yet ensure accountability among themselves?

Response:

- A. Public blockchain
- B. Private blockchain
- C. Consortium blockchain
- D. Hybrid blockchain

Answer: C

Question: 9

In blockchain deployment, what is the primary purpose of a consensus algorithm like Proof of Stake (PoS)?

Response:

- A. To ensure all transactions are free
- B. To verify the identity of users
- C. To agree on the ledger state without needing trust
- D. To encrypt transaction data

Answer: C

Question: 10

In healthcare, blockchain can be used to:

Response:

- A. Share patient records securely between facilities
- B. Predict medical conditions using AI

- C. Directly perform medical treatments
- D. Increase the cost of data storage

Answer: A

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