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Question: 11

The Bitcoin hack demonstrated that there are circumstances in which the principles of blockchain must be violated to protect the blockchain.

A. True

B. False

Answer: A

Question: 12

Blockchain technology is designated to be self-contained with no interaction with external components.

A. True B. False

B. False

Answer: B

Question: 13

Which types of network attacks focus on partitioning the blockchain network? Select all that apply

A. Eclipse

B. Sybil

C. Denial of Service

D. Routing

Answer: A,B,C

Question: 14

Both sidechains and slate channels rely on the original blockchain for security and as a fallback if issues occur.

A. True B. False

Answer: B

Question: 15

In both blockchain and DAG-based distributed ledgers, the trust in all transactions that are part of the ledger Increases as additional transactions are added to the ledger.

A. True B. False

Answer: A

Question: 16

Properly encrypted data stored in the distributed ledger adequately protects data in both the short-term and the long-term

A. True B. False

Answer: A

Question: 17

Which of the following is NOT a common regulatory requirement tor businesses?

A. Data transparency

- B. Data encryption
- C. Personal data protection
- D. Data control

Answer: A

Question: 18

Which of the following biockchains uses a channel-focused architectural design?

A. Hyperledger

- B. Corda
- C. Ethereum

Answer: A

Question: 19

The code of smart contracts that are "self-destructed" is no longer visible to the blockchain network

A. True B. False

Answer: B

Question: 20

Malware infections of blockchain nodes can compromise the security of the blockchain's consensus algorithm.

A. True B. False

Answer: A

Question: 21

Sidechains can benefit the mainchain in what ways? Select all that apply

A. SpeedB. FunctionalityC. ScalabilityD. Security

Answer: B,C

Question: 22

Which of the following blockchains has a built-in consensus algorithm?

- A. Ethereum B. Corda
- C. Hyperledger

Answer: A

Question: 23

Compromising blockchain accounts is beneficial to which of the following types ot attacks?

A. 51% AttackB. Eclipse AttackC. Routing AttackD. Sybil Attack

E. All of the above

Answer: D

Question: 24

In which of the following attacks targeting Proof of Stake does an attacker create a divergent chain and race to make their chain longer than the real chain?

- A. Selfish Mining AttackB. Long-Range AttackC. Double-Spend Attack
- D. 51% Attack

Answer: B

Question: 25

Spinning up a large number of temporary mining servers is likely part of what type of attack?

A. RoutingB. Denial of ServiceC. SybilD. Eclipse

Answer: C

Question: 26

In which blockchain consensus algorithm does a user pay (give up coin forever) to participate in consensus?

A. Proof of Burn

- B. Proof of Work
- C. Proof of Stake
- D. Proof of Activity
- E. None of the above

Answer: A

Question: 27

Which of the following is designed to allow someone to prove they know a secret without revealing it?

- A. Confidential Transaction
- B. Ring Signature
- C. Zero-Knowledge Proof
- D. Stealth Address

Answer: C

Question: 28

Which algorithm was adopted by Bitcoin's creator for use as a consensus mechanism?

- A. Proof of Stake
- B. Proof of Space
- C. Proof of Work
- D. Proof of Activity

Answer: C

Question: 29

This sample code is vulnerable to which of the following attacks? Select all that apply.

A. ReentrancyB. Unchecked Return ValuesC. ArithmeticD. Race Conditions

Answer: A,B,D

Question: 30

If an attacker can find two values that hash to the same output what is it called?

- A. Match B. Intersection
- C. Collision

D. Correlation

Answer: C



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