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QUESTION 1

Which of the following features were exploited as part of the Verge cryptocurrency hack? Select all that apply.

A. Mining Difficulty Update Function

B. Multiple Hash Functions

C. Timestamp Flexibility

D. Short Addresses

Correct Answer: AD

QUESTION 2

The immutability of the blockchain is an asset for which of the following? Select all that apply.

A. Asset Management

B. Data Security Secure

C. Communications

D. Transparency

Correct Answer: D

QUESTION 3

Which smart contract vulnerability allows an attacker to make a profit off a smart contract cryptocurrency exchange like Bancor?

A. Arithmetic

B. Access Control

C. Race Conditions

D. Reentrancy

Correct Answer: C

QUESTION 4

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 Attack

B. Long-Range Attack

C. Double-Spend Attack

D. 51% Attack

Correct Answer: B

QUESTION 5

Transactions can be added to DAG-based distributed ledgers without being validated but the same is not true for blockchain.

A. True

B. False

Correct Answer: A

QUESTION 6

For which of the following attacks is a permissioned or private blockchain the best solution?

A. Routing

B. Denial of Service

C. Replay

D. Sybil

Correct Answer: D

QUESTION 7

Using a distributed ledger decreases risk of data loss since all data is not stored in the same place.

A. True

B. False

Correct Answer: A

QUESTION 8

Which of the following attacks takes advantage of the fact that transaction information is posted on the blockchain to infer sensitive information?

A. Smart Contract Exploitation

B. Data Mining

C. Brute Force Key Guessing

D. Cryptanalysis

Correct Answer: B

QUESTION 9

For which of the following regulatory requirements is blockchain technology best suited?

A. Data Control

B. Data Retention

C. Transparency

D. Data Deletion

Correct Answer: C

QUESTION 10

Which of the following is a takenaway from the pigeocoin/Bitcom Core hack?

A. Importance of scaning code for common vulnerabilities

B. Importance of cryptanalysis of algorithms used

C. Import of system-level analysis

D. Import of a robust change management process

Correct Answer: A

QUESTION 11

This sample code is vulnerable to which of the following attacks?

```
1 function play() public payable {
2     require(msg.value >= 1 ether);
3     if (block.blockhash(blockNumber) % 2 == 0) {
4         msg.sender.transfer(this.balance);
5     }
6 }
```

A. Bad Randomness

B. Reentrancy

C. Arithmetic

D. Unchecked Return Values

Correct Answer: A

QUESTION 12

Which of the following blockchains best implements need-to-know tor blockchain data?

A. Ethereum

B. Corda

C. Hyperledger

Correct Answer: C

QUESTION 13

Implementing data access as a blockchain smart contract is a good solution for generating an audit log of access to sensitive data.

A. True

B. False

Correct Answer: A

QUESTION 14

From a business perspective, which of me following is the major consideration regarding the use of smart contract

technology?

A. Public Accessibility

B. Hosting Requirements

C. Code as Law" Arbitration

D. Decentralization

Correct Answer: C

QUESTION 15

This sample code is vulnerable to which of the following attacks?

```
1 function selectNextWinners(uint256 _largestWinner) {
2     for (uint256 i = 0; i < largestWinner; i++) {
3         // heavy code
4     }
5     largestWinner = _largestWinner;
6 }
```

A. Denial of Service

B. Access Control

C. Race Conditions

D. Anthmetic

E. All of the above

Correct Answer: A

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