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QUESTION 1

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 2

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

Correct Answer: C

QUESTION 3

The List hack demonstrated that blockchains using short addresses are exploitable.

- A. True
- B. False

Correct Answer: A

QUESTION 4

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

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

Correct Answer: A

QUESTION 5

Digital signatures provide confidentiality, integrity, and non-repudiation.

- A. True
- B. False

Correct Answer: A

QUESTION 6

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

- A. True
- B. False

Correct Answer: A

QUESTION 7

Which blockchain security control either risks centralization or permanently divergent chains?

- A. Random Neighbor Selection
- B. Permissioned Blockchains
- C. Checkpoints
- D. Private Blockchains

Correct Answer: D

QUESTION 8

Which of the following attacks were enabled by design decisions made by the blockchain's developers? Select all that apply

- A. Bitcoin
- B. EOS
- C. Verge
- D. List

Correct Answer: CD

QUESTION 9

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

- A. 51% Attack
- B. Eclipse Attack
- C. Routing Attack
- D. Sybil Attack
- E. All of the above

Correct Answer: D

QUESTION 10

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

- A. Importance of scanning 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

All smart contracts are audited for correctness and checked for malicious code before being uploaded to the blockchain.

- A. True
- B. False

Correct Answer: B

QUESTION 12

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

- A. Hyperledger
- B. Corda
- C. Ethereum

Correct Answer: A

QUESTION 13

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

Correct Answer: A

QUESTION 14

Which smart contract auditing strategy identifies which variables in the function can be affected by the person running it?

- A. Manual Code Analysis
- B. Symbolic Execution
- C. Taint Analysis
- D. Control Flow Analysis

Correct Answer: B

QUESTION 15

Poorly designed smart contracts can only be disabled on the blockchain if this functionality was built in from the beginning.

A. True

B. False

Correct Answer: A

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