

Question: 1

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: 2

Which of the following are necessary properties for a cryptographic hash function to be secure? Select all that apply

- A. Randomness
- B. Large State Space
- C. One-Way
- D. Non-Locality

Answer: B C D

Question: 3

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

- A. True
- B. False

Answer: A

Question: 4

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. Arithmetic
- E. All of the above

Answer: A

Question: 5

The goal of most network-based blockchain attacks is to enable what type of attack?

- A. Selfish Mining Attack
- B. Double-Spend Attack
- C. 51% Attack
- D. Long-Range Attack

Answer: A

Question: 6

Data subject to deletion procedures should be stored encrypted on-chain.

- A. True
- B. False

Answer: B

Question: 7

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

- A. Speed
- B. Functionality
- C. Scalability
- D. Security

Answer: B C

Question: 8

From a regulatory perspective, which of the following may be the most complicated issue around demonstrating proper data management?

- A. Lack of blockchain support for encryption
- B. Use of distributed storage
- C. Lack of access controls
- D. Decentralized control of blockchain

Answer: B

Question: 9

Scanning against a list of common vulnerabilities is an important component of smart contract auditing.

- A. True
- B. False

Answer: A

Question: 10

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

Answer: B