NextGen Hackathon Quiz

* Indicates required question

1. Email *

2. **Question 1: Cardano Architecture** * 1 point

What are the two main layers of Cardano's blockchain architecture?

Mark only one oval.

- ◯ Cardano Settlement Layer (CSL) and Cardano Computation Layer (CCL)
- ◯ Cardano Transaction Layer (CTL) and Cardano Smart Contract Layer (CSCL)
- ◯ Cardano Base Layer (CBL) and Cardano Application Layer (CAL)
- ◯ Cardano Protocol Layer (CPL) and Cardano Consensus Layer (CCL)

3. **Question 2: Consensus Mechanism** * 1 point

What is the name of Cardano's proof-of-stake consensus mechanism?

Mark only one oval.

- ◯ Ethereum
- ◯ Ouroboros
- ◯ Nakamoto
- ◯ Byzantine

4. **Question 3: eUTXO Model** * 1 point

In the Cardano eUTXO model, what does the "e" in eUTXO stand for?

Mark only one oval.

- ◯ Efficient
- ◯ Enhanced
- ◯ Extended
- ◯ Encrypted

5. **Question 4: Smart Contract Components** * 1 point

Which of the following is NOT one of the three important parameters of Cardano smart contracts mentioned in the module?

Mark only one oval.

- Datum
- Redeemer
- TransactionContext
- ValidatorScript

6. **Question 5: Development Languages** * 1 point

Which programming language is described as "a modern, ergonomic DSL optimized for Cardano smart contract development" that will be the focus of this course?

Mark only one oval.

- Plutus
- Helios
- Plu-Ts
- Aiken

7. **Question 6: Aiken String Usage** * 1 point

What prefix is used to create text strings in Aiken?

Mark only one oval.

- ◯ #
- ◯ @
- ◯ $
- ◯ %

8. **Question 7: Validator Handlers** * 1 point

Which of the following is NOT a valid Cardano validator handler purpose mentioned in the course?

Mark only one oval.

- ◯ mint
- ◯ spend
- ◯ transfer
- ◯ withdraw

9. **Question 8: Spend Handler Parameters** * 1 point

How many parameters does the spend handler accept in Aiken?

Mark only one oval.

- 2
- 3
- 4
- 5

10. **Question 9: Debugging Operator** * 1 point

What is the name of Aiken's "trace-if-false" operator used for debugging?

Mark only one oval.

- &
- !
- ?
- #

11. **Question 10: Vesting Contract Logic** * 1 point

In the vesting contract example, what are the two ways a UTxO can be spent?

Mark only one oval.

- ◯ Owner signs OR beneficiary signs after lock time
- ◯ Owner signs AND beneficiary signs
- ◯ Only owner can sign OR only beneficiary can sign
- ◯ Owner signs after lock time OR beneficiary signs immediately

12. **Question 11: Mesh JS Wallet Integration** * 1 point

What are the two wallet APIs provided by Mesh JS for interacting with wallets?

Mark only one oval.

- ◯ WebWallet and DesktopWallet
- ◯ BrowserWallet and MeshWallet
- ◯ CardanoWallet and TestWallet
- ◯ MainWallet and DevWallet

13. **Question 12: Smart Contract Transaction Requirements** * 1 point

When creating an unlocking transaction for a vesting contract in Mesh JS, which of the following is NOT required?

Mark only one oval.

- ◯ A collateral UTxO since a smart contract is involved
- ◯ The beneficiary's signature to sign and submit the transaction
- ◯ A minting policy to validate the transaction
- ◯ The current time validation through invalidBefore parameter

14. Good luck!