

Block Chain Technologies and Systems (Merged - SEZG569/SSZG569)(S1-22)

Dashboard ► Campus based Instruction ► Non-Specific Programs ► 2022-23 Semester 1 ► MERGED Courses ► S1-22_MERGEDBCTS ► General ► Quiz 2

Question 1

Answer saved

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🚩 Flag question

How does uniswap DEX determine the price of the coin?

Select one:

- ☐ a. price of the most recent trade or transactions
- ☐ b. Mathematical formula or algorithm also known as Automated Market Maker
- ☒ c. Both 1 and 2
- ☐ d. None of them

Question 2

Answer saved

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Key features of IOTA are:

Select one or more:

- ☐ a. Zero transaction fee
- ☐ b. Scalability
- ☐ c. Current version of IOTA is resilient to quantum machine
- ☐ d. Completely self-regulating
- ☒ e. All of the above

Question 3

Answer saved

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Select the true statements -

Select one or more:

- ☒ a. 51% attack is far more expensive to carry out in PoS then in PoW mechanism
- ☒ b. Ouroboros is a PoS-based protocol that is run on cosmos blockchain
- ☒ c. Casper protocol is run in Ethereum and uses a PoS during voter selection process
- ☒ d. PoS uses slashing mechanism if validators cheat.

Question 4

Answer saved

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Select the true statements about the scalability solutions-

Select one or more:

- ☐ a. A state channel is a smart contract that enforces predefined rules for on-chain transactions.
- ☒ b. Sidechains operate as a decoupled entity with their own behavior, consensus algorithms, attributes and security.
- ☒ c. Polygon provides a layer-2 solution as a sidechain and plasma chain.
- ☒ d. In the plasma chains, each child may have its own mechanism of block validation. Moreover, the communication between the child chains and the root chain is secured by fraud proofs.
- ☒ e. To achieve security, state channel and side chains have their own security measures.

Question 5

Answer saved

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Flag question

To avoid tx.origin attack, which attribute should we use to check for authorisation of ownership?

Select one:

- ☒ a. msg.sender
- ☐ b. msg.origin
- ☐ c. tx.sender
- ☐ d. tr.sender

Question 6

Answer saved

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Flag question

Tools used for performing on-chain analysis -

Select one or more:

- ☒ a. Blockchain Explorer
- ☒ b. CryptoQuant
- ☒ c. Glassnode
- ☒ d. DappRadar

Question 7

Answer saved

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Flag question

Ways to reward the miners in the Helium Blockchain

Select one or more:

- ☒ a. Challenges
- ☒ b. Proof-of-coverage
- ☒ c. Witnesses
- ☒ d. Network Data Transfer

Question 8

Answer saved

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Flag question

What is the consensus mechanism used by VeChain?

Select one:

- ☐ a. Proof of work
- ☒ b. Proof of stake
- ☐ c. Proof of history
- ☐ d. Proof of capacity

Question 9

Answer saved

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What is the name of the consensus mechanism developed by Fantom?

Select one:

- ☐ a. Tendermint
- ☐ b. Proof of stake
- ☒ c. Lachesis
- ☐ d. Proof of history

Question 10

Answer saved

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Which are the applications related to the decentralized finance?

Select one or more:

- ☒ a. Sandbox
- ☒ b. Codefi
- ☐ c. Doc.ai
- ☒ d. Uniswap

Question 11

Answer saved

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Which are the key attributes of roll ups?

Select one or more:

- ☐ a. Transaction execution happens outside layer-1
- ☐ b. Data or proof of transactions resides on layer-2
- ☐ c. A roll up smart contract (lying on layer-1) can enforce correct transaction execution on layer-2 by using the transaction data lying on layer-1.
- ☒ d. All of the above

Question 12

Answer saved

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Which blockchain provides a blockchain building framework called Substrate to develop a new blockchain?

Select one:

- ☐ a. Ethereum
- ☒ b. Polkadot
- ☐ c. Cosmos
- ☐ d. IOTA

Question 13

Answer saved

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Which company is not there in the metaverse world?

Select one:

- ☐ a. Facebook
- ☐ b. Microsoft
- ☒ c. Google
- ☐ d. Amazon

Question 14

Answer saved

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Which entity can play a major role to provide scalability in the polkadot by collecting sharded transactions from the users?

Select one:

- ☒ a. Validator
- ☐ b. Nominator
- ☐ c. Collators
- ☐ d. Fisherman

Question 15

Answer saved

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Which entity can play a role to select the trustworthy validators in polkadot

Select one:

- ☐ a. Collators
- ☒ b. Nominators
- ☐ c. Fisherman
- ☐ d. Validators

Question 16

Answer saved

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Which kind of L2 rollup is used by Arbitrum?

Select one:

- ☒ a. Optimistic rollup
- ☐ b. ZK rollup
- ☐ c. Deterministic rollup
- ☐ d. None

Question 17

Answer saved

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Which of the following is not a known benefit of an NFT?

Select one:

- ☐ a. They allow a securitization-like process for assets
- ☐ b. They allow the tracing of ownership and custody of an asset over time
- ☒ c. They allow owner the right to reproduce the asset
- ☐ d. They allow owners to better control depulication of works by others.

Question 18

Answer saved

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Which of the following is true about the bitcoin scripting language?

Select one:

- ☒ a. stack-based
- ☐ b. support infinite time/memory
- ☐ c. turing complete
- ☐ d. None of the above

Question 19

Answer saved

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Which statement best describes the metaverse?

Select one:

- ☐ a. A virtual world that connects people wrldwide without the internet.
- ☒ b. A non-physical world designed for people involved in VR gaming activities.
- ☐ c. A virtual world designed to support the latest 5G mobile technology.
- ☐ d. A non-physical world inwhcih people interact virtually through technology.

Question 20

Answer saved

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ZK-SNARK stands for Zero Knowledge Succinct Non _____

Select one:

- ☒ a. Interactive Argument of Knowledge
- ☐ b. Immutable Argument of Knowledge
- ☐ c. Interactive Authority of Knowledge
- ☐ d. Immutable Authority of Knowledge