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Unit 3 - Week 1 : Unit 1

Assignment 1

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment. **Due on 2018-08-15, 23:59 IST.**

NOTE: The question with check boxes have multiple correct answers. Select all the correct answers to get the marks

1) Which of the following are properties of Blockchain? ***1 point***

- Distributed Ledger
- Integrity and Safety
- Decentralized Systems
- All of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
All of the above

2) A block in blockchain is pointed using: ***1 point***

- Hash Pointer
- User ID
- Transaction ID
- Timestamp

No, the answer is incorrect.
Score: 0

Accepted Answers:
Hash Pointer

3) The property of consistency is preserved in blockchain by maintaining ------- ***1 point***

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No, the answer is incorrect.
Score: 0

Accepted Answers:
A Local copy of the Global Information

4) Authentication codes for messages are also known as: ***1 point***

- Keyed Hash Function
- Hash Code
- Message Hash Function
- None of the Above

No, the answer is incorrect.
Score: 0

Accepted Answers:
Keyed Hash Function

5) Suppose the you have eight data points from 0 to 7. The in-order traversal of the Merkle Tree is given by (here 0 means hash of 0, 01 means the combined hash of 0 and 1, and so on): ***1 point***

- {0,1,01,2,3,23,0123,4,5,45,6,7,67,4567,01234567}
- {01234567,0123,01,0,1,23,2,3,4567,45,4,5,67,6,7}
- {0,01,1,0123,2,23,3,01234567,4,45,5,4567,6,67,7}
- {01234567,0123,4567,01,23,45,67,0,1,2,3,4,5,6,7}

No, the answer is incorrect.
Score: 0

Accepted Answers:
{0,01,1,0123,2,23,3,01234567,4,45,5,4567,6,67,7}

6) What are the main components of the metadata of a block in blockchain? ***1 point***

- [ ] Previous Block Hash
- [ ] Transaction ID
- [ ] Merkle Root
- [ ] Mining Statistics

No, the answer is incorrect.
Score: 0

Accepted Answers:
Previous Block Hash
Merkle Root
Mining Statistics

7) The current cryptographic hash algorithm used in Bitcoin is: ***1 point***

- RSA
- MD5
- Double SHA128
- Double SHA256

No, the answer is incorrect.
Score: 0

Accepted Answers:
Double SHA256

8) Which of the following is used to ensure consensus in Bitcoin framework? ***1 point***

- PoW (Proof of Work)
- PoS (Proof of Stake)
- PoC (Proof of Concept)
- None of the Above

No, the answer is incorrect.
Score: 0

Accepted Answers:
PoW (Proof of Work)

9) How many operations are required to identify two messages with message digest in case of SHA256? ***1 point***

- 2^{128}
- 2^{256}
- 2^{512}
- 2^{1024}

No, the answer is incorrect.
Score: 0

Accepted Answers:
2^{128}

10) What is the length of a message in SHA512 after padding? ***1 point***

- 992
- 960
- 768
- 896

No, the answer is incorrect.
Score: 0

Accepted Answers:
896

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