Assignment 03

The due date for submitting this assignment has passed.

Due on 2020-03-18, 23:59 IST.

Assignment submitted on 2020-03-16, 22:40 IST

Assignment-3 1) Probability of double spend attacks 1 point Increases exponentially with number of confirmations of blocks. Decreases exponentially with number of confirmations of blocks Decreases logarithmically with number of confirmations of blocks Increases logarithmically with number of confirmations of blocks Yes, the answer is correct. Score: 1 Accepted Answers: Decreases exponentially with number of confirmations of blocks 2) Which property of hash function makes bitcoin proof of work difficult? 1 point Collision Resistance Hiding Puzzle Friendliness Yes, the answer is correct. Score: 1 Accepted Answers: Puzzle Friendliness 3) Bitcoin Scripting Language: 1 point Turing Complete Supports Cryptography Stack Based Supports infinite time/memory

Why there is no identity in bitcoin:	1 point
To make proof of work easy	
☐ To prevent sybil attacks	
✓ To ensure consensus	
✓ To promote pseudonymity	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
To prevent sybil attacks	
To promote pseudonymity	
5) What is nonce?	1 point
The transaction id number	
A miners ASIC chip array	
The generator point used in elliptic curve cryptography	
The number miners run through to generate a correct hash	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
The number miners run through to generate a correct hash	
6) Arrival of new blocks follows:	1 point
Exponential Distribution	
Logarithmic Distribution	
Normal Distribution	
Poisson Distribution	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
Poisson Distribution	
7) Which one of the following opcodes is needed in escrow transactions?	1 point

OP_RETURN	
● OP_IF	
OP_CHECKMULTISIG	
OP_EQUAL	
No, the answer is incorrect. Score: 0	
Accepted Answers: OP_CHECKMULTISIG	
8) Coinbase transaction in Bitcoin?	1 point
One input and one output	
One input and multiple output	
Contains a null hash pointer	
Doesn't redeem any input	
Partially Correct. Score: 0.66	
Accepted Answers:	
One input and one output	
Contains a null hash pointer	
Doesn't redeem any input	
9) Alice is on a backpacking trip and is worried about her	1 point
devices containing private keys getting stolen. So, she would like to store her	
bitcoins in such a way that they can be redeemed via knowledge of only a	
password. Accordingly, she stores them in the following ScriptPubKey address:	
OP_SHA256	
<0xeb271cbcc2340d0b0e6212903e29f22e578ff69b>	
OP_EQUAL	
Why this is not a secure way to protect Bitcoins using a	
password	
Bitcoin scripts are not secure	
Anyone can change the hash and can redirect the coins to his/her wallet	

SHA256 is not secure	
ScriptPubKey is not long enough	
Yes, the answer is correct. Score: 1	
Accepted Answers:	
Anyone can change the hash and can redirect the coins to his/her wallet	
10) Which one of the following is not the application to bitcoin script	1 point
Escrow Transaction	
MicroPayments	
Smart Contracts	
Green Addresses	
Yes, the answer is correct. Score: 1	
Accepted Answers: Smart Contracts	