Tp N°0

1. Question 1

Inspect and explore block #4390176 to solve the below question.

What is the previous block hash of block #4390176 in Ethereum Blockchain? Every block contain the hash of the previous block, in this case the hash of previous block corresponds to the parent hash
0xc253f0917b33b2947b4d9cdb7ad656cc0233ef1781984384284f3a91810a8a36

⑦ Hash:	0x77245e866785d61fcd99b637b5a705c65208bb6dcac6860754d3ee74b6a5a132
⑦ Parent Hash:	0xc253f0917b33b2947b4d9cdb7ad656cc0233ef1781984384284f3a91810a8a36

2. Question 2

Inspect and explore block #4390176 to solve the below question.

What is the total difficulty for block #4390176 in Ethereum Blockchain?
The Total Difficulty represents the sum of the difficulty of all blocks mined up to this one. It is a measure of the total amount of computing power that is equal to **1,226,797,074,502,984,598,563**

⑦ Uncles Reward:	0
⑦ Difficulty:	1,462,196,725,068,910
⑦ Total Difficulty:	1,226,797,074,502,984,598,563

3. Question 3

Inspect and explore the transaction with the hash "0x5edb69874d0900d8857468fbe53715cc1a58137709b8b70e46299bf10983dc09" the ethers transferred in this transaction correspond to the value that is equal to 913.268

Approximately, how many Ethers are transferred in this transaction?
- 4434720 ethers
- 0.00042 ethers
- 21000 ethers
- **913.268 ethers**

⑦ Transaction Hash:	0x5edb69874d0900d8857468fbe53715cc1a58137709b8b70e46299bf10983dc09
⑦ Status:	✔ Success
⑦ Value:	◆ 913.26840646995791384 ETH $2,770,810.94
⑦ Transaction Fee:	0.00042 ETH $1.27
⑦ Gas Price:	20 Gwei (0.00000002 ETH)

4. Question 4

Inspect and explore the transaction with the hash "0x5edb69874d0900d8857468fbe53715cc1a58137709b8b70e46299bf10983dc09". The address is the address of sender that forward the transaction, correspond to From that represent
0xF9fbA58d8345b03100c5AdF3b8B51938E5dA0a9D

What is the address of the sender in this transaction?

⑦ From:	0xF9fbA58d8345bD3100C5AdF3b8B51938E5dA0a9D
⑦ To:	0xFf1b354670E3502145c097bcD2d1F3f17B648e63

5. Question 5

Which of the following is true about an externally owned account (EOA) in Ethereum Homestead?

- EOAs have associated code with them.
- EOAs execute code when triggered by a transaction.
- **EOAs can send transactions (ether transfer or invoke a contract code)**

6. Question 6

External Owned Accounts (EOA) are controlled by _____. For control signature we use the private key

- Public Key and Private Key
- Public Key
- Hash of the first transaction by that account
- **Private Key**

7. Question 7

What is the differentiating factor between the Ethereum Blockchain and the Bitcoin blockchain?

- **Smart contracts**
- Distributed ledger
- Wallets
- Currency Exchange

8. Question 8

Calculate the amount of gas points required to execute an operation that involves 2 steps and 1 load from memory. Use the following image.

Operation name	Gas Cost
Step	1
Load from memory	20
Store into memory	100
Transaction base fee	21000
Contract creation	53000
...	...

- 1
- **22**
- 42
- 23

9. Question 9

What is the correct sequence involved in a block creation:

1. Transactions validated

2. Transactions Bundled & broadcasted

3. Transaction initiated

4. Block added to the local chain and propagated to the network.

5. Proof of work consensus problem solved

- **3,1,2,5,4**
- 3,2,1,4,5
- 1,2,3,4,5
- 5,3,1,2,4