 In a soft fork, structures that were invalid under the old rules will be under the new rules. In a hard fork, structures that were invalid under the old rules will be under the new rules. A. invalid invalid B. valid valid C. invalid valid D. valid invalid Answer: C
2. [True/False] An SPV node validates transactions. Answer: False
3. [True/False] An SPV node needs to download all block headers, selected transactions and Merkle proofs. Answer: True
4. [True/False] An full node needs to download all block headers, all transactions and Merkle proofs. Answer: False (no need to download Merkle proof).
5. Bitcoin mining difficulty will be changed every blocks. A. 25 B. 10 C. 1024 D. 2016 Answer: D
6. What is the difference between Anonymity and Pseudonymity? use one word to describe.
Answer: <u>Linkability</u>
7. What defends against linking attack: A. Stronger hash algorithm B. Using Mixing service C. Increase hardness D. Add Bloom filter
Answer: B
8. [True/False] Proof-of-work is important to prevent sybil attacks on the Bitcoin blockchain Answer: True
9. Which of the following(s) does NOT break anonymity:A. In a service with a single mixer, the mixer discloses the linkage

B. Mix a group of transactions with different values

- C. In a service with multiple mixers, one mixer discloses the linkage
- D. Mix a group of transactions with the same values

Answer: C, D

- 10. [True/False] CoinJoin is a single Bitcoin transaction encoding multiple inputs/outputs. True
- 11. [True/False] 51% attacks are difficult because an adversary would need to control more than half of the nodes on the Bitcoin network.

Answer: true

- 12. Which part of block header is the solution to the mining "puzzle"?
 - A. Merkle root
 - B. Block hash
 - C. Nonce
 - D. previous block's hash

Answer: C