1. In a typical transaction

ANS: b. Each input contains a signature

2. Bitcoin's script supports instructions whose effect is

ANS:

a. Adding two numbers

b. Conditional execution (if/then)

e. Hashing

3. Alice is paying for a service using Bitcoin micropayments. If she simply disconnects at some point without notifying Bob and stops sending micropayments, what can Bob do?

ANS:

- Bob can redeem the latest micropayment transaction that Alice sent in the last time period before disconnecting, which matches the length of service she received

Bitcoin micropayments require the use of:

ANS:

a. Multisignature Transactions

c. Time-locked transactions

4. Blocks contain a tree of transactions instead of a flat list because

ANS:

c. It enables efficiently proving that a transaction is included in a block

5. If two conflicting transactions A → B and A → C are both broadcast almost simultaneously from different nodes,what determines which one will eventually end up in the block chain? Select all that apply.

ANS:

c. The miner who finds the next block will likely resolve the tie by including one of the transactions in the block