

✔ Congratulations! You passed!

Grade received **100%** To pass 80% or higher

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1. Why are centralized computing systems problematic?

1 / 1 point

- ☐ Single points of control make companies and their customers vulnerable to catastrophic crashes, fraud, and security breaches.
- ☐ It gives others the power to define the services we use; sometimes their implicit values and goals are in conflict with our own.
- ☐ It enables others to own and monetize the data that their users generate.
- ☒ All of the above



Correct

Centralized computing systems make companies and their customers vulnerable to crashes, fraud, and security breaches, they empower others to define the services we use, and they enable others to own and monetize the data that users generate.

2. DApps did not exist prior to the emergence of blockchain technology.

1 / 1 point

- ☐ True
- ☒ False



Correct

BitTorrent, the peer-to-peer file-sharing app, is an example of a distributed application that emerged before blockchain technology.

3. With a DApp such as bAirbnb, why is it advantageous to perform transactions on-chain, as opposed to off-chain?

1 / 1 point

- ☒ Reputation: The risk of a negative review motivates hosts and guests to be honest



Correct

People with good reputations can benefit from the same persona across multiple DApps

- ☒ Identity verification: Hosts and guests can verify each other's public keys without going through a centralized system



Correct

An app such as "VerifyID" would enable hosts and guests to verify each party's public key without a centralized system

- ☒ Insurance: Renters with good reputations get lower rates and don't have to subsidize renters with a negative history



Correct

Insurers would perform their own calculations in real time through an autonomous agent, taking into account factors such as the market value of the owner's house, how much the owner wants insured, owner and renter reputations, and the rental price.

- ☒ Secure access to property: A smart lock connected to the blockchain can control access to the property without the owner having to drop off physical keys



Correct

A smart lock connected to the blockchain would know when an owner has been paid. Upon arrival, the tenant's NFC-enabled smart phone could sign a message with their private key as a proof of payment, and the lock would open.