Smart Contracts can be written in

a) Java, C++, Solidity and JavaScript, because the Ethereum Blockchain is completely language agnostic and cross compilers for every major language exist.

b) **Solidity, Viper, LLL and Serpent, because those are high level languages that are compiled down to bytecode**

c) Solidity and JavaScript, because those are the official first implementations for Distributed applications and the Blockchain fully supports those languages

Solidity gets compiled to

a) Bytecode that can't be understood by humans

b) **Bytecodes which are essentially opcodes running instruction by instruction**

Gas is used

a) **Depending on the instruction/opcode run by the Ethereum Blockchain**

b) Is a fixed amount for the length of your smart contract

To store almost all data in the Ethereum Blockchain

a) A Linked List with pointers to previous blocks hashes is used

b) **A Merkle Patricia Trie is used**

c) A Radix Trie is used because the Merkle Patricia Trie is too inefficient

You interact with a smart contract and see a gas usage of 50,000 gas with a gas cost of 15Gwei, how much Ether would you have to pay to the miner?

a) **750,000,000,000,000 Wei**

b) 750,000,000,000 Wei

c) 750,000,000 Wei

d) A flat fee of 1 Ether

Checking the balance of an address inside a loop of a smart contract constantly

a) Doesn't cost any gas

b) **Cost gas every time we check the balance**