Test	Exam
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What is the genesis block?	In Bitcoin a block is produced every:
Any block created by the founder	2 weeks
 The last block created in the Blockchain 	20 minutes
 The first block of a Blockchain 	2016 minutes
 The first transaction in each block 	■ 10 minutes
The transaction Merkle Tree root value in a Bitcoin block	Where is a Blockchain's central server?
is calculated using,	 Where the blockchain is created
Hash of transactions	 Located with the owner of the server
 Previous block's hash 	 There is no central server, it is distributed
 Number of transactions 	 Ordered Node
None of the above The main preparties of blockshain are 2	The constitute of moulting by such in his clock in its collect
The main properties of blockchain are? Decentralization	The generation of multiple branchs in blockchain is called, Division
 Decentralization Immutability 	Merge
Transparency	- Meige - Fork
 All of the above 	None of the above
Given a message M and a hash function H	What key must be used by Bob to be certain that only
 Knowing H(M), one can compute M 	Alice can read the message that Bob wants to send her?
Knowing M, one can compute H(M)	Bob public key
 H(M) and M always have the same size 	Alice private key
It is guaranteed that H(H(M)) = M	Alice public key
	Bob private key
What is the hashing algorithm used in bitcoin?	In Ethereum the EOA is,
■ MD5	 controlled by a contract code
Keccak-256	controlled by a private key
■ SHA-256	160-bits length
■ RIPEMD-160	256-bits length
Full node does not,	The mining in bitcoin consists to find a nounce value that
Maintains a complete copy of the blockchain	will make the first k bits of its n hash bits to zero, i.e.,
Mines block	finding hash values that are smaller than or equal to a
Verify all transactions	certain target value. Suppose that n=8 and k=3, so the
adds it to the blockchain	target value is,
to alliante account and the taffing account the attended	• 29 • 30 • 31 • 32
In elliptic curve, we assume that after several iterations	In the smart contract program we must explicitly specify
we obtain 17P+P = 6, we say that, ■ 17P is the opposite of P	the constructor True
 17P is the opposite of P 17P is the inverse of P 	■ False
P is the inverse of 17P	- 1 4136
■ 17P is the primitive of P	
In digital signature, a valid signature must verify,	The earliest deployed consensus algorithms are :
Verify(pk,message,sign(sk,message))==true	■ Bitcoin-NG, PoW, PBFT
Verify(pk,message,sig)==true	PoS, Algorand, PoW
Verify(pk,message,sk,message)==true	DAG-based, PoW, PoS
Verify(pk,message,sk)==true	PoW, PoS, PBFT
The smart contract deployment process consists of :	web3.js allow the frontend to communicate with an
Generating the ABI	ethereum node via,
 Generating the Byte code 	servlet
Compiling the smart contract	JSON-RPC
None of the above	• Websocket
	• HTTP
const web3 = new Web3('http://127.0.0.1:7545'); indicate	The function web3.eth.sendTransaction is used to:
that we will use the blockchain :	 Transfert ether between account
Remix	Send transaction Cot the list of transactions
Web3.jsGanache	 Get the list of transactions Got the arguments of the transactions
- Udildule	Get the arguments of the transactions
HTTP	