Question 1

The transaction Merkle Tree root value in a Bitcoin block is calculated using			
\bigcirc	previous block's hash		
\bigcirc	none		
•	hash of transactions		
0	number of transactions		
Que	stion 2		
Follow the steps given in the tool at <u>this link</u> to manually calculate the hash of the block #490624. You can obtain the details required in the tool from <u>this link</u> except for the timestamp. Please use the timestamp from <u>this link</u> .			
Wha	t is the hash of the block #490624? Copy and paste the answer.		
Ente	answer here: 0000000000000000d4		
	stion 3		
Follow the guidelines in the encryption tool at this link to better understand the concept of Public-Private key encryption and answer the question below.			
When encrypting a message with the public key, which key is required to decrypt the message?			
\bigcirc	Both Public key and Private key		
•	Private Key		
\bigcirc	Public Key		
0	Inverted Public Key		

Question 4

What type of hashing algorithm does Bitcoin blockchain use to determine the hash of a block?		
\bigcirc	SHA-512	
\circ	MD5	
•	SHA-256	
0	SHA-1	
Que	estion 5	
	thereum, which algorithm is applied to the private key in order to get a ue public key.	
\bigcirc	RSA	
\circ	Keccak	
\circ	SHA 256	
•	ECC	
Que	estion 6	
	ch of the following methods can be used to obtain the original message is its generated hash message using SHA-256?	
\circ	Hashing the reverse of generated hash	
\circ	Hashing the generated hash again, twice	
\circ	Hashing the generated hash again	
•	Original message cannot be retrieved	
Que	estion 7	
In E	thereum, hashing functions are used for which of the following?	
1. G	enerating state hash.	
2. G	enerating account addresses.	
3. D	ecrypting senders message.	

4. Generating block header hash.

\bigcirc	1,3,4	
•	1,2,4	
\bigcirc	2,3,4	
0	1,2,3	
Question 8		
What is the purpose of using a digital signature?		
\circ	None of the above.	
\circ	It supports the integrity of messages	
•	It supports both user authentication and integrity of messages	
0	It supports user authentication	
Question 9		
Encryption of a message provides		
\circ	integrity	
•	security	
\circ	authentication	
0	nonrepudiation	
Question 10		
A pu	blic key is derived from the	
•	private Key	
\bigcirc	a different public key	
\circ	genesis block hash	
0	hash of the first transaction by the account	