reviewer4@nptel.iitm.ac.in ▼ Courses » Blockchain Architecture Design and Use Cases **Announcements** Course Ask a Question **Progress** FAQ **Unit 5 - Week 2 :** Unit 2 Register for **Assignment 2 Certification exam** The due date for submitting this assignment has passed. Course As per our records you have not submitted this Due on 2019-02-13, 23:59 IST. outline assignment. 1) Suppose, you are using RSA algorithm based cryptosystem to securely share the number 1 point How to access the portal of marbles that you have currently with you, among your friends. The private key that you are using is (3,15). Your friends know the corresponding public key is (11,15). One of your friends wants to share Prerequisite the exact amount of marble content only to you. What are the maximal possible marbles that your friend can have so that he/she can secretly share that to you? Week 1 : Unit 1 Week 2 : Unit 2 Lecture 06 : Basic Crypto Primitives - II No such limit exists l ecture 07 · No, the answer is incorrect. Bitcoin Basics -Score: 0 **Accepted Answers:** Lecture 08 : 14 Bitcoin Basics -2) In the previous problem, suppose an attacker somehow manages to know your public key 1 point (11,15). Additionally, he observes that your friend is sending an encrypted message with ciphertext 6. Is Lecture 09 : Bitcoin Basics it possible for the attacker to guess the original message that your friend sends to you? Yes, without any hurdle he can guess Lecture 10 : Distributed Possible, only if the attacker can guess proper encryption key Consensus Possible, only if the attacker can guess proper decryption key Lecture Not possible as guessing the keys are difficult Materials Feedback for No, the answer is incorrect. Week 2 Score: 0 Quiz: **Accepted Answers:**

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Yes, without any hurdle he can guess

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Assignment 2



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Week 5	receiver's public key
Week 6	No, the answer is incorrect. Score: 0
Week 7	Accepted Answers:
	sender's private key
Week 8	4) Consider the following three scenarios and select the double spending attack example(s): 1 point
Week 9	Jena brought a piece of jewellery using 20 bitcoins. On delivery, the bitcoins are transferred
Week 10	from Jena's wallet to the jewellery shop's wallet. She somehow manages to reverse the bitcoin transfer and tries to use the same for another purchase.
Week 11	Alice and Bob have 30 unspent bitcoins each. Alice and Bob transfer 10 bitcoins to each other, Jena.
Week 12	Hari has 40 unspent bitcoins. Hari sends the entire amount each to Dick and Tom.
VIDEO	No, the answer is incorrect.
DOWNLOAD	Score: 0
Text Transcript	Accepted Answers: Jena brought a piece of jewellery using 20 bitcoins. On delivery, the bitcoins are transferred from Jena's wallet to the jewellery shop's wallet. She somehow manages to reverse the bitcoin transfer and tries to u the same for another purchase. Hari has 40 unspent bitcoins. Hari sends the entire amount each to Dick and Tom.
	5) How does the pseudo-anonymity of a user is maintained in bitcoin? 1 point
	using the generated unique identifier based on the user's email address
	using the generated unique identifier based on the user's private key
	using the generated unique identifier based on the user's public key
	using the generated unique identifier based on the user's private and public key
	No, the answer is incorrect. Score: 0
	Accepted Answers:
	using the generated unique identifier based on the user's public key
	6) What is the output of the following script?
	True
	False
	Empty
	Failure
	No, the answer is incorrect.
	Score: 0 Accepted Answers:
	Empty
	7) What is the output of the following script? 1 point
	scriptSig: <sig><pubkey></pubkey></sig>
	scriptPubKey: OP_DUP OP_HASH256 <pubkeyhash> OP_EQUAL OP_CHECKSIG</pubkeyhash>
	True
	Empty
	Failure

No, the answer is incorrect. Score: 0	
Accepted Answers: Failure	
8) What is/are the content(s) of the	block header in bitcoin? 1 point
Merkle root	
Previous block header has	sh
Next block's Merkle root	
Target threshold nBits	200
No, the answer is incorrect. Score: 0	
Accepted Answers: Merkle root	<u> </u>
Previous block header hash	
Target threshold nBits	2000
starting the task, two trustworthy no trustworthy information is unknown. system. What is the type of the fault	the team shares the results for making the consensus. After des drop the plan and they are replaced by two other nodes whose After joining the new nodes, some discrepancy occurs in the it is in the context of distributed consensus?
Network Fault	
Byzantine Fault	
No, the answer is incorrect. Score: 0	
Accepted Answers: Byzantine Fault	
10)n distributed consensus, all the property is	non-faulty individuals' decision must be identical. This 1 point
Termination	
Validity	
Integrity	
Agreement	
No, the answer is incorrect. Score: 0	
Accepted Answers: Agreement	
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