exam test take 1

Due No due date **Points** 9 **Questions** 9 **Available** after Jun 8 at 4pm **Time Limit** 30 Minutes **Allowed Attempts** 2

Take the Quiz Again

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	5 minutes	9 out of 9

! Correct answers are hidden.

Score for this attempt: **9** out of 9 Submitted Jun 8 at 4:30pm This attempt took 5 minutes.

Question 1	1 / 1 pts
How large is the key space in case of a classical substitution ciph alphabet)?	er (English
26! (26 factorial)	
O 26	
2^26 (2 to the 26)	
O 25	

How large is the key space in the case of the classical shift cipher (English alphabet)?

2^26 (2 t	o the 26)		
O 3			
© 26			

What makes perfect schemes unpractical? The fact that identical messages will always be encrypted in the same way. The fact that the encryption algorithm has exponential running time. They are hard to implement on computers The fact that the key needs to be as long as the message.

Question 4	1 / 1 pts
Out of the triple (Gen, Enc, Dec) which one needs to be determinis cases?	tic in all
Dec	
○ Enc and Dec	
O None of them	
O All of	

Question 5 1 / 1 pts

That the distribu	tion is indistinguishable from random output.	
That the encrypt	ion algorithm is randomized.	
That an attacker car probability only.	win the eavesdropping experiment with negligible	
	e ciphertext gives back the original plaintext.	

What is a true difference between a perfectly secure and a computationally secure scheme? In a perfect scheme, the distinguisher always has limited power In a computationally secure scheme, the distinguisher never wins with probability larger than 1/2 In a perfect scheme, the distinguisher wins with probability below 1/3 In a computationally secure scheme, the distinguisher may win with probability larger than 1/2

Question 7	1 / 1 pts
Which of the following functions is negligible (as n goes to infinity)?	?
○ 1/(log(n)	

O log(n)
○ 1/n^100
<pre>exp(-n)</pre>

Question 8	1 / 1 pts
Which scheme's security requires the assumption on the difficulty factoring?	of
One-time pad	
O AES	
O Diffie-Hellman key exchange	
RSA	

Question 9	1 / 1 pts
Which of the following modes of operation has the flaw that identically?	cal
● ECB	
○ CBC	
○ OFB	
○ Counter	

Quiz Score: 9 out of 9