COMP435 9/8/25 Pract	tice Name:				
Question 1: Transposit	ion Which of the fo	ollowing are true ab	out transposition?		
O It obscures the	e symbols of the ori	iginal plaintext			
	e patterns of the ori				
O It is a necessar	ary part of any secur	re public key encryp	tion algorithm		
O It is a necessar	ary part of any secur	re symmetric encryp	tion algorithm		
Question 2: Substitution for a secure symmetric	_		n without transposition i	s insufficient	
○ True					
O False					
Question 3: Substitution	n Which of the fol	llowing is true about	substitution?		
() It obscures the	e symbols of the ori	iginal plaintext			
O It obscures the	e patterns of the ori	iginal plaintext			
O It is not used	in any modern sym	metric encryption a	lgorithm		
Question 4: One-Time	Pad Review The	one-time pad uses			
neither transp	position nor substitu	ition			
transposition,	transposition, but not substitution				
<ul><li>substitution,</li></ul>	but not transpositio	on			
O both transpos	sition and substitution	on			
Question 5: Stream cip	hers All stream ci	phers, including the	one-time pad, rely solely	y on:	
○ diffusion					
$\bigcirc$ confusion					
Question 6: CBC Mode Must decryption be don	v =	in the corresponding	g figure for CBC mode	decryption.	
	$\left[ \begin{array}{c} p_1 \end{array} \right]$	p <sub>2</sub>	[ p <sub>3</sub> ]		
	Φ	<b>⊕</b>	•		
IV	$\oplus$	Φ	<b>⊕</b>		
	? 🕟	? 🖳	?		
17.7					
IV	$c_1$	G <sub>2</sub>	<b>C</b> 3		
IV	c <sub>1</sub>	c <sub>2</sub>	c <sub>3</sub>		

**Question 7: OFB Mode Decryption** Fill in the corresponding figure for OFB mode decryption. Why is pre-processing not an option for the message receiver?

