•	Solution A consists of a 0.15 M aqueous solution of nitrous acid (HNO ₂) at 25 °C. Calculate the pH of Solution A. The p K_a of HNO ₂ is 3.15.	Marks 8
		-
	pH =	
	At 25 °C, 1.00 L of Solution B consists of 13.8 g of sodium nitrite (NaNO $_2$) dissolved in water. Calculate the pH of Solution B.	
	pH =	-
	Solution B (1.00 L) is poured into Solution A (1.00 L) and allowed to equilibrate at 25 °C. Calculate the pH of the final solution.	
		-
	pH =	
	If you wanted to adjust the pH of the mixture of Solution A and Solution B to be exactly equal to 3.00, which component in the mixture would you need to increase in concentration?	