Quiz 17.1 – Buffer Solutions

Name:			
Question 1			
	gate pair can act as a buffer. ver which each pair below wo	rks (Consult Appendix A.3 fo	r K_a values):
$\mathrm{NH_4^+/NH_3}$	HClO ₂ /ClO ₂	HPO ₄ ²⁻ /PO ₄ ³⁻	$\mathrm{HC_5H_5N^+/C_5H_5N}$
Question 2			
1.5 g of MgF ₂ (s) are consists no volume change	lissolved in a $100.0\ ml$ soluti	on of $0.5M$ HF. Find the pH	of the solution assuming there
Question 3			
Find the pH if 25.0 r	nl of $0.75M$ HCl are added t	o the buffer solution prepare	d in Question 2
Question 4			
	M and another with $[\mathrm{CN}^{ ext{}}]$	-	N ⁻ buffer. You have one solution nix together to make the buffer.
Question 5			
-	ity of the solution prepared in the pH strays more than $1p$,	es of strong acid and strong base

My Voice

By Rafael Campo

To cure myself of wanting Cuban songs, I wrote a Cuban song about the need For people to suppress their fantasies, Especially unhealthy ones. The song Began by making reference to the sea, Because the sea is like a need so great And deep it never can be swallowed. Then The song explores some common myths About the Cuban people and their folklore: The story of a little Carib boy Mistakenly abandoned to the sea; The legend of a bird who wanted song So desperately he gave up flight; a queen Whose strength was greater than a rival king's. The song goes on about morality, And then there is a line about the sea, How deep it is, how many creatures need Its nourishment, how beautiful it is To need. The song is ending now, because I cannot bear to hear it any longer. I call this song of needful love my voice.