

淡江大學九十一學年度碩士班招生考試試題

系別：水資源及環境工程學系

科目：環境化學與環境微生物

准帶項目請打「○」否則打「×」	
計算機	字典
✓	×

本試題共 / 頁

- 一、 Describe the mechanisms and the procedure of anaerobic reaction. (10%)
- 二、 何為 Henry's Law? 如何應用其解釋氧氣溶入水中之速率? (10%)
- 三、 What is zeta potential? Explain how it can influence the destabilization of the colloids in the solution. (20%)
- 四、 What is buffer capacity? The pK_A between $H_2PO_4^-$ and HPO_4^{2-} is 7.21, how to prepare a buffer solution with these two salts, in order to avoid the pH decrease below 7.10, when HCl is added to give a concentration of 0.001 M? (20%)
- 五、 描述大氣與水環境中之氮循環現象。詳述微生物在氮循環中扮演之角色。(20%)
- 六、 描述在批次活性污泥系統中，各類微生物之生長與死亡之趨勢。(20%)