•	Solution A consists of a 0.050 M aqueous solution of benzoic acid, $C_6H_5COOH$ , at 25 °C. Calculate the pH of Solution A. The p $K_a$ of benzoic acid is 4.20.		Mark 6
	Г		_
		pH =	_
	What are the major species present in solution A?		
	Solution B consists of a 0.050 M aqueous solution of ammonia, NH <sub>3</sub> , at 25 °C. Calculate the pH of Solution B. The $pK_a$ of NH <sub>4</sub> <sup>+</sup> is 9.24.		
	Г		_
		pH =	
	What are the major species present in solution B?		

## THIS QUESTION CONTINUES ON THE NEXT PAGE.