Question 32	(9 marks)

4		(o marko)
	er solution containing 0.1 mol L^{-1} ammonia and 0.1 mol L^{-1} ammonium chloritory-scale experiment involving a biological process.	de is used in a
(a)	Write the equation for the equilibrium reaction in the buffer solution involving acid and its conjugate base.	g the weak (2 marks)
(b)	Label the weak acid and its conjugate base in the above equation.	(1 mark)
(c)	The biological process in the experiment produces a small amount of strong and explain the impact on the pH of the buffer solution.	g acid. Predict (3 marks)
(d)	Define the term 'buffer capacity'.	(1 mark)
(e)	Identify two factors that determine buffer capacity of a system.	(2 marks)
(0)	One:	(Z mano)

Two: _____