

AS-LEVEL CHEMISTRY

MARK SCHEME

Practice Paper 1

Maximum marks: 105

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1	(a)	(i)	$[H^+][OH^-]$ OR $[H_3O^+][OH^-]$ <i>Ignore (aq)</i> <i>Must have [] not ()</i>	1
		(ii)	$\sqrt{3.46 \times 10^{-14}}$ ($= 1.86 \times 10^{-7}$) <i>If no square root, CE= 0</i> pH = 6.73 Must be 2dp	2
		(iii)	$[H^+] = 10^{-11.26}$ ($= 4.365 \times 10^{-12}$ OR 4.37×10^{-12}) <i>Mark for working</i> $K_w = [4.365 \times 10^{-12} \text{ OR } 4.37 \times 10^{-12} \times 0.047] = 2.05 \times 10^{-13}$ <i>Allow $2.05 \times 10^{-13} = 2.1 \times 10^{-13}$</i> <i>Mark for answer</i> <i>Ignore units</i>	1
	(b)	(i)	$HCOOH \rightleftharpoons HCOO^- + H^+$ <i>Must have $\rightleftharpoons$ but ignore brackets.</i> OR $HCOOH + H_2O \rightleftharpoons HCOO^- + H_3O^+$ <i>Allow HCO_2^- or $CHOO^-$ ie minus must be on oxygen, so penalise $COOH^-$</i>	1
		(ii)	$K_a = \frac{[H^+][HCOO^-]}{[HCOOH]}$ OR $\frac{[H_3O^+][HCOO^-]}{[HCOOH]}$ <i>Must have all brackets but allow ()</i> <i>Must be $HCOOH$ etc.</i> <i>Allow ecf in formulae from (b)(i)</i>	1
		(iii)	M1 $K_a = \frac{[H^+]^2}{[HCOOH]}$ ($[H^+]^2 = 1.78 \times 10^{-4} \times 0.056 = 9.97 \times 10^{-6}$) <i>Allow HA or HX etc.</i> <i>Allow $[H^+] = \sqrt{(K_a \times [HA])}$ for M1</i>	1
			M2 $[H^+] = 3.16 \times 10^{-3}$ <i>Mark for answer</i>	1
			M3 pH = 2.50 allow more than 2 dp but not fewer <i>Allow correct pH from their wrong $[H^+]$ here only if square root shown but not taken, pH = 5.00 can score max 2 for M1 and M3</i>	1

Chemistry F335 June 2013 Mark Scheme

Lingjun Ying



Chemistry F335 June 2013 Mark Scheme:

Decoding **Chemistry F335 June 2013 Mark Scheme**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Chemistry F335 June 2013 Mark Scheme**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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