

## A-LEVEL CHEMISTRY

## MARK SCHEME

## Practice Paper 1

Maximum marks: 105

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

# May 200a Level Chemistry Paper

**Patrick Vollmar**



**May 200a Level Chemistry Paper:**

## Unveiling the Magic of Words: A Report on "**May 200a Level Chemistry Paper**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**May 200a Level Chemistry Paper**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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