

A-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) 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 $2.05 \times 10^{-13} = 2.1 \times 10^{-13}$ Mark for answer 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 () Must be $HCOOH$ etc. 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. 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 |

May 200a Level Chemistry Paper

Jin-Ying Zhang



May 200a Level Chemistry Paper:

Abstract Bulletin of the Institute of Paper Chemistry Institute of Paper Chemistry (Appleton, Wis.),1961 **A**
Bibliography of Paper Testing: Optical properties, by J. Weiner and J. Byrne ,1969 **Abstract Bulletin of the Institute of Paper Chemistry** ,1960 **Photochemistry** D Bryce-Smith,2007-10-31 The breadth of scientific and technological interests in the general topic of photochemistry is truly enormous and includes for example such diverse areas as microelectronics atmospheric chemistry organic synthesis non conventional photoimaging photosynthesis solar energy conversion polymer technologies and spectroscopy This Specialist Periodical Report on Photochemistry aims to provide an annual review of photo induced processes that have relevance to the above wide ranging academic and commercial disciplines and interests in chemistry physics biology and technology In order to provide easy access to this vast and varied literature each volume of Photochemistry comprises sections concerned with photophysical processes in condensed phases organic aspects which are sub divided by chromophore type polymer photochemistry and photochemical aspects of solar energy conversion Volume 34 covers literature published from July 2001 to June 2002 Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis Bulletin of the Institute of Paper Chemistry Institute of Paper Chemistry (Appleton, Wis.),1958-04 *Advances in Low-temperature Plasma Chemistry, Technology, Applications* ,1984 **MicroRNA in Regenerative Medicine** Chandan K. Sen,2023-05-08 Regulating virtually all biological processes the genome s 2 654 newly discovered variants of mature microRNAs short ribonucleic acid molecules found in eukaryotic cells hold a key role in the body s toolkit of regenerative and reparative capacities Identifying how to activate and deliver these specialist molecules may aid in the repair and regeneration of major tissue and organ damage in future therapies In MicroRNA and Regenerative Medicine Second Edition over 50 leading experts address foundational and emerging topics in the field Concisely summarizing and evaluating key findings from new research and their translational application contributors examine current and future significance of clinical research in the miRNA area Coverage encompasses all major aspects of fundamental stem cell and developmental biology including the uses of miRNA in cell and tissue plasticity developmental biology tissue repair and regeneration In particular contributors provide focused coverage of methodologies for regenerative intervention and tissue engineering Topics new to this edition include proteomic changes during tissue repair and regeneration horizontal transfer of miRNAs in tissue regeneration tissue stemness peripheral nerve regeneration miRNA as biomarkers microRNA in pregnancy and embryo development exogenous and diet derived microRNA in tissue development ocular microRNA mitochondrial microRNA sensory hair cell death and regeneration and microRNA in senescence Features chapter

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