

CHIMIE (9 points)

Exercice 1 (5 points)

BAREME

COMMENTAIRE

Partie I

1 - La valeur du pH d'une base forte est donnée par l'expression :
 $\text{pH} = \text{pK}_e + \log C_0$. Seul le pH de la solution (S_3) vérifie cette relation. Par conséquent B_1 et B_2 sont des bases faibles et B_3 est une base forte.

0,25x2

2) a - $\tau_{1f} = \frac{[\text{OH}^-]}{C_0} = \frac{K_e}{C_0 \cdot 10^{-\text{pH}_{S1}}}$ (0,25)

$$\tau_{1f} = 10^{-3,6} = 2,5 \cdot 10^{-2}$$

0,25x2

$\tau_{1f} < 5 \cdot 10^{-2}$ donc B_1 est faiblement ionisée dans l'eau. (0,25)

b - Dans le domaine des concentrations [$10^{-2} \text{ mol.L}^{-1}$, $10^{-1} \text{ mol.L}^{-1}$], la base B_1 est faiblement dissociée dans l'eau donc $[B_1] \approx C$.

En négligeant les molarités des ions H_3O^+ et OH^- provenant de la dissociation propre de l'eau on peut écrire : $[B_1\text{H}^+] = [\text{OH}^-]$

0,25x4

La constante d'acidité du couple $B_1\text{H}^+/B_1$ s'écrit : $K_{a1} = \frac{[\text{H}_3\text{O}^+] \cdot [B_1]}{[B_1\text{H}^+]}$ (0,25)

$$K_{a1} = \frac{[\text{H}_3\text{O}^+] \cdot C}{[\text{OH}^-]} = \frac{[\text{H}_3\text{O}^+]^2 \cdot C}{K_e} = \frac{10^{-2\text{pH}} \cdot C}{K_e}$$

D'où : $\text{pH} = \frac{1}{2} (\text{pK}_{a1} + \text{pK}_e + \log C)$, qui peut se mettre sous la forme (0,25)

$$\text{pH} = b + a \log C \text{ avec } b = \frac{1}{2} (\text{pK}_{a1} + \text{pK}_e); \quad a = 1/2 \quad (0,25)$$

c - D'après la courbe $\mathcal{E}_1 = 11,9$, or $b = \frac{1}{2} (\text{pK}_{a1} + \text{pK}_e)$; d'où (0,25)

$$\text{pK}_{a1} = 20 - \text{pK}_e$$

Soit : $\text{pK}_{a1} = 7,8$ (0,25)

0,25x2

Partie II

1) a - Le pH initial de la solution (S_3) est égal à 13. La courbe \mathcal{E}_3 correspond au dosage de la solution (S_3).

0,25

b - l'équivalence acido-basique est l'état du mélange correspondant à un mélange de quantités de matière d'acide et de base dans les proportions stoechiométriques. (0,25)

A l'équivalence $C_A \cdot V_{AE} = C_0 \cdot V_{B3} \Rightarrow C_A = \frac{C_0 \cdot V_{B3}}{V_{AE}} \quad C_A = 5 \cdot 10^{-2} \text{ mol.L}^{-1}$ (0,25)

0,25x2

Paper1physical Science 2014

Per Espen Stoknes



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based value added strategies designed to improve academic engagement and depth of learning In this volume researchers teaching and curriculum reformers and reform implementers discuss a range of important issues The volume should be considered as a first step in thinking through what physics teaching and physics learning might address in teacher preparation programs in service professional development programs and in classrooms To facilitate thinking about research based physics teaching and learning each chapter in the volume was organized around five common elements 1 A significant review of research in the issue or problem area 2 Themes addressed are relevant for the teaching and learning of K 16 science 3 Discussion of original research by the author s addressing the major theme of the chapter 4 Bridge gaps between theory and practice and or research and practice 5 Concerns and needs are addressed of school community context stakeholders including students teachers parents administrators and community members

World Congress on Medical Physics and Biomedical Engineering, June 7-12, 2015, Toronto, Canada David A. Jaffray, 2015-07-13 This book presents the proceedings of the IUPESM World Biomedical Engineering and Medical Physics a tri annual high level policy meeting dedicated exclusively to furthering the role of biomedical engineering and medical physics in medicine The book offers papers about emerging issues related to the development and sustainability of the role and impact of medical physicists and biomedical engineers in medicine and healthcare It provides a unique and important forum to secure a coordinated multileveled global response to the need demand and importance of creating and supporting strong academic and clinical teams of biomedical engineers and medical physicists for the benefit of human health

Inquiry-Based Science in the Primary Classroom Garima Bansal, Umesh Ramnarain, 2023-06-20 The chapters in this book represent a cross section of research conducted in inquiry based science education at primary levels of schooling in international contexts that include school settings in Australia India Singapore South Africa Turkey Northern Ireland and the United States The book includes empirical studies on the role of inquiry based learning in advancing students conceptual understanding and modelling proficiency students understandings about the nature of scientific inquiry classroom studies on teachers enactment of inquiry based learning teachers facilitation of classroom discourse for inquiry based learning and co teaching in developing teachers in adopting an inquiry based pedagogy It was originally published as a special issue of the journal Education 3 13

What We Think About When We Try Not To Think About Global Warming Per Espen Stoknes, 2015 Today about 98 percent of scientists affirm that climate change is human made and about 2 percent still question it Despite that overwhelming majority though about half the population of rich countries like ours choose to believe the 2 percent And paradoxically this large camp of deniers grows even larger as more and more alarming proof of climate change has cropped up over the last decades This disconnect has both climate scientists and activists scratching their heads growing anxious and responding usually by repeating more facts to win the argument But the more climate facts pile up the greater the resistance to them grows and the harder it becomes to enact measures to reduce greenhouse gas emissions and prepare communities for the

inevitable change ahead Is humanity up to the task It is a catch 22 that starts says psychologist and climate expert Per Espen Stoknes from an inadequate understanding of the way most humans think act and live in the world around them With dozens of examples he shows how to retell the story of climate change and apply communication strategies more fit for the task
 Publisher s description **ICPMG2014 - Physical Modelling in Geotechnics** Christophe Gaudin,David White,2019-01-08
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1890 paper on The Psychological and Logical Moment in Natural Science Teaching This paper launched the influential Machian tradition in education Other essays address concrete cases of the utilisation of history and philosophy in the development and justification of school science curricula These are instances of the supportive relation of HPS a subject long discussed in philosophy of education but inadequately in science education This book is a timely reminder of why history and philosophy of science are urgently needed to support understanding of science From major traditions such as the Enlightenment to the tensions around cultural studies of science the book provides a comprehensive context for the scientific endeavour drawing on curriculum and instructional examples Sibel Erduran University of Oxford UK The scholarship that each of the authors in this volume offers deepens our understanding of what we teach in science and why that understanding matters This is an important book exploring a wide set of issues and should be read by anyone with an interest in science or science education Jonathan Osborne Stanford University USA This volume presents new and updated perspectives in the field such as the Enlightenment Tradition Cultural Studies Indoctrination in Science Education and Nature of Science Highly recommended Mansoor Niaz Universidad de Oriente Venezuela This volume provides an extremely valuable set of insights into educational issues related to the history and philosophy of science Michael J Reiss University College London UK

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