SECTION: SCIENCES EXPERIMENTALES

Corrigé

SESSION PRINCIPALE

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 : pH = pKe + 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.	0,25x 2	
2) $a - \tau_{11} = \frac{[OH^+]}{C_0} = \frac{K_e}{C_0.10^{-pH}S1}$ $\tau_{11} = 10^{-1.4} = 2.5.10^{-2}$. $\tau_{11} < 5.10^{-2}$ donc B_1 est faiblement ionisée dans l'eau. $b - Dans$ 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^- provenses la dissociation propre de l'eau on peut écrire : $[B_1H^+] = [OH^-]$ La constante d'acidité du couple B_1H^*/B_1 s'écrit. $C_1 = [H_3O^*] \cdot [B_1]$. $K_{a1} = \frac{[H_3O^+] \cdot C}{[OH^-]} = \frac{[H_3O^+]^2 \cdot C}{K_e} = \frac{10^{-2pH}E}{[OH^-]}$ $E_1 = \frac{[H_3O^+] \cdot C}{[OH^-]} = \frac{[H_3O^+]^2 \cdot C}{K_e} = \frac{10^{-2pH}E}{[OH^-]}$ $E_2 = \frac{[H_3O^+] \cdot C}{[OH^-]} = \frac{[H_3O^+]^2 \cdot C}{K_e} = \frac{10^{-2pH}E}{[OH^-]}$	0,25×2 0,25×4	9
c – D'après la collère = 11,9, or b = $\frac{1}{2}$ {pK _{a1} + pKe}; d'où pK _{a1} = 20 – Ke Soit : px,8 – 3,8 . GIO	0,25×2	
Partie II \longrightarrow 1) a -Le pH initial de la solution (S ₃) est égal à 13. La courbe \mathscr{C}_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. A l'équivalence $C_A.V_{AE} = C_0.V_{ES} \implies C_A = \frac{C_0.V_{ES}}{V_{AE}}$ $C_A = 5.10^{-2} \text{mol.L}^{-1}.$	0,25×2	

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Table of Contents Paper1physical Science 2014

- 1. Understanding the eBook Paper1physical Science 2014
 - The Rise of Digital Reading Paper1physical Science 2014
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Paper1physical Science 2014
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Paper1physical Science 2014
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Paper1physical Science 2014
 - Personalized Recommendations
 - Paper1physical Science 2014 User Reviews and Ratings
 - Paper1physical Science 2014 and Bestseller Lists
- 5. Accessing Paper1physical Science 2014 Free and Paid eBooks
 - Paper1physical Science 2014 Public Domain eBooks
 - Paper1physical Science 2014 eBook Subscription Services
 - Paper1physical Science 2014 Budget-Friendly Options
- 6. Navigating Paper1physical Science 2014 eBook Formats

- o ePub, PDF, MOBI, and More
- Paper1physical Science 2014 Compatibility with Devices
- Paper1physical Science 2014 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Paper1physical Science 2014
 - Highlighting and Note-Taking Paper1physical Science 2014
 - Interactive Elements Paper1physical Science 2014
- 8. Staying Engaged with Paper1physical Science 2014
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Paper1physical Science 2014
- 9. Balancing eBooks and Physical Books Paper1physical Science 2014
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Paper1physical Science 2014
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Paper1physical Science 2014
 - Setting Reading Goals Paper1physical Science 2014
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Paper1physical Science 2014
 - Fact-Checking eBook Content of Paper1physical Science 2014
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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