

BACCALAURÉAT
SESSION 2025

Coefficient : 5
Durée : 3 h

PHYSIQUE-CHIMIE

SÉRIES : C-E

*Cette épreuve comporte quatre (04) pages numérotées 1/4, 2/4, 3/4 et 4/4.
La candidate ou le candidat recevra une (01) feuille annexe à rendre avec la copie.
Toute calculatrice est autorisée.*

EXERCICE 1 (5 points)

CHIMIE (3 points)

A.

Écris l'équation-bilan de la réaction chimique qui a lieu lorsqu'on mélange une solution d'acide nitrique et une solution d'hydroxyde de sodium.

B.

On te donne les pK_A des couples acide/base suivants :

- acide méthanoïque/ion méthanoate : $pK_{A1} = 3,75$;
- acide éthanoïque/ion éthanoate : $pK_{A2} = 4,8$;
- acide fluorhydrique/ion fluorure : $pK_{A3} = 3,17$.

1. De ces trois acides :

- a. l'acide méthanoïque est plus fort que l'acide fluorhydrique ;
- b. l'acide fluorhydrique est plus fort que l'acide éthanoïque ;
- c. l'acide éthanoïque est plus fort que l'acide méthanoïque.

2. La relation liant le pH d'une solution d'acide fluorhydrique au pK_A du couple acide fluorhydrique/ion fluorure est :

- a. $\text{pH} = pK_{A3} + \log \frac{[\text{F}^-]}{[\text{HF}]}$;
- b. $\text{pH} = pK_{A3} + \log \frac{[\text{HF}]}{[\text{F}^-]}$;
- c. $\text{pH} + pK_{A3} = \log \frac{[\text{F}^-]}{[\text{HF}]}$.

Recopie, pour chaque proposition, le numéro suivi de la lettre qui correspond à la bonne option.

C.

1. Cite :

- 1.1 deux méthodes de préparation d'une solution tampon ;
- 1.2 deux méthodes de dosage acido-basique.

2. Donne les propriétés d'une solution tampon.

3. Écris l'équation-bilan de la réaction chimique entre l'ion éthanoate et l'eau.

PHYSIQUE (2 points)

A.

Un circuit RLC série est constitué d'une bobine d'inductance L et de résistance négligeable, d'un condensateur de capacité C et d'un conducteur ohmique de résistance R (voir figure ci-dessous).



À la résonance d'intensité :

C D Physique Chimie Thierryl2ee

Tobias Bleicker



C D Physique Chimie Thierryl2ee :

C D Physique Chimie Thierryl2ee Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **C D Physique Chimie Thierryl2ee** , a literary masterpiece that delves deep into the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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