**Prénom & Nom:**..................................................................................................................................... **Classe:** ...........

**PHYSIQUE-CHIMIE**

**3 juin 2015**

**Série S**

Durée de l’épreuve: 0h30

*L’usage des calculatrices est interdit*

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|  | **Note** |
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**Propriété oxydante de l'eau de Javel**

On verse dans un bécher 10 mL d'eau de Javel (hypochlorite de sodium). Ce volume de solution contient une quantité n(CℓO-) d'ion hypochlorite CℓO- aq égale à 4,0.10-2 mol.

On verse ensuite dans le bécher une solution d'iodure de potassium K+ aq + I- aq. Ce faisant, on introduit la quantité de matière n(I-) = 6,0.10-2 mol. Pour observer la formation de diiode I2 aq donnant une couleur brune à la solution, le milieu doit être acide.

1. L'un des deux couples en présence dans l’expérience est CℓO- aq / Cℓ- aq. Quel est le deuxième ?
2. Écrire les demi-équations de ces deux couples
3. Écrire l’équation de réaction

**REPONSES**

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