basic education

Department:
Basic Education
REPUBLIC OF SOUTH AFRICA

ERRATA/*ERRATUM*

NSC EXAMINATIONS: Preparatory Examinations 2021
NSS-EKSAMEN: Voorbereidende Eksamen 2021

SUBJECT/*VAK:*	**PHYSICAL SCIENCES/*FISIESE WETENSKAPPE***
PAPER/*VRAESTEL*:	**2**
DATE OF EXAMINATION: ***DATUM VAN EKSAMEN:***	**Monday 20 September 2021** ***Maandag 20 September 2021***
SESSION/*SESSIE*:	**1 (09:00–12:00)**

ATTENTION/*AANDAG:* **ALL MARKERS/*ALLE NASIENERS***

QUESTION 1/*VRAAG* 1

1.10 D ✓✓ (2)

QUESTION 10/*VRAAG* 10

10.1 A substance that loses electrons. ✓✓
'n Stof wat elektrone verloor. (2)

10.2

10.2.1 Cr/chromium/*chroom* ✓ (1)

10.2.2 $2C\ell^-(aq) \rightarrow C\ell_2(g) + 2e^-$ ✓✓

Ignore phases/*Ignoreer fases*

Marking guidelines/*Nasienriglyne*

- $C\ell_2(g) + 2e^- \leftarrow 2C\ell^-(aq)$ $(\frac{2}{2})$ $2C\ell^-(aq) \rightleftharpoons C\ell_2(g) + 2e^-$ $(\frac{1}{2})$
  $C\ell_2(g) + 2e^- \rightleftharpoons 2C\ell^-(aq)$ $(\frac{0}{2})$ $2C\ell^-(aq) \leftarrow C\ell_2(g) + 2e^-$ $(\frac{0}{2})$
- Ignore if charge omitted on electron./*Ignoreer indien lading weggelaat op elektron.*
- If charge (-) omitted on $C\ell^-$ /*Indien lading (-) weggelaat op* $C\ell^-$:
  Example/*Voorbeeld:* $2C\ell(aq) \rightarrow C\ell_2(g) + 2e^-$ ✓ Max./*Maks:* $\frac{1}{2}$

(2)

10.2.3 - 0,41 V ✓ (1)

10.3

10.3.1 No/*Nee* ✓ (1)

10.3.2 Zn is a stronger reducing agent ✓ than Cu ✓ and will be oxidised to (Zn^{2+}). ✓
Zn is 'n sterker reduseermiddel as Cu en sal geoksideer word na Zn^{2+}*.*

OR/*OF*
Cu is a weaker reducing agent ✓ than Zn ✓and therefore Zn will be oxidised ✓ (to Zn^{2+}).
Cu is 'n swakker reduseermiddel as Zn en daarom sal Zn geoksideer word na (Zn^{2+}*).*

OR/*OF*
Cu^{2+} is a stronger oxidising agent ✓ than Zn^{2+} ✓and therefore Cu^{2+} will be reduced ✓ (to Cu).
Cu^{2+} *is 'n sterker oksideermiddel as* Zn^{2+} *en daarom sal* Cu^{2+} *gereduseer word (na* Cu).

OR/*OF*
Zn^{2+} is a weaker oxidising agent ✓ than Cu^{2+} ✓and therefore Cu^{2+} will be reduced ✓ (to Cu).
Zn^{2+} *is 'n sterker oksideermiddel as* Cu^{2+} *en daarom sal* Cu^{2+} *gereduseer word (na* Cu).

(3)
[10]

PEOgunbanjo

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Date: 21/09/2021