

THE WEST AFRICAN EXAMINATIONS COUNCIL
WASSCE FOR SCHOOL CANDIDATES, 2023
NIGERIA AND THE GAMBIA
FINAL MARKING SCHEME
CHEMISTRY 2

Rubrics: Answer four questions in all. Question one and three questions from Section B

Maximum marks obtainable: [100 marks]

SECTION A

Answer all the questions in this section

Question 1

(a) A transition element is one which has incompletely filled d-orbitals.
[2 marks]

(b) (i) B (1)
(ii) C (1)
[2 marks]

(Do not accept name or symbol of the element)

(c) Across a period (from left to right) there is a gradual increase in the number of protons in the nucleus / effective nuclear-charge (1).
This increases the force of attraction between the nucleus and the electrons (1) hence more energy is needed to remove the outermost electron.
[2 marks]

(d) - methane
- ethene
- ethyne
- ethanol
- ethanoic acid
(accept any two correct aliphatic compounds)
Any 2 x 1 = 2 marks

(e) - Alkanols are formed by replacing one hydrogen of water by an alkyl group (1)
- Alkyl groups have a positive inductive effect / are electron releasing/ electron donating (1)
- This increases the electron density of the oxygen. (1)
3 x 1 = 3 marks

Waec Marking Guide

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Anamuah-Mensah, George Sefa
Dei, Kolawole Raheem**

Waec Marking Guide:

The Enigmatic Realm of **Waec Marking Guide**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Waec Marking Guide** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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