

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 Chemistry Marking Guideline

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Impact of Examination Policy on Teaching Chemistry in Nigerian Secondary Schools David Afolayan Alao,1988
Annual Conference Proceedings Science Teachers Association of Nigeria. Conference,1999 **Validating Technological Innovation** David Coniam,Peter Falvey,2016-04-02 This book discusses Hong Kong s use of onscreen marking OSM in public examinations Given that Hong Kong leads the way in OSM innovation this book has arisen from a recognised need to provide a comprehensive coherent account of the findings of various separate but linked validation studies of onscreen public examinations in Hong Kong The authors discuss their experience of the validation process demonstrating how high stakes innovation should be fully validated by a series of research studies in order to satisfy key stakeholders **Journal of Research in Curriculum** ,1986 **Education Sector Reform in Nigeria** David Nwoye Ezeh,Nkadi Onyegegbu,2008 Proceedings of the ... Annual Conference and ... Conference of CASTME Africa Science Teachers Association of Nigeria. Conference,2004 Refocusing Research in Science, Technology, and Mathematics (STM) Education Science Teachers Association of Nigeria. Annual Conference,2004 **The Mirror** Margaret Safo (Mrs.),2005-04-09 *Nigeria Social Science Review* ,1998 **New Perspectives in Nigerian Education** E. O. A. Ajayi,Taiwo Ajayi,1990 **Yearbook of International Organizations 2001-2002** K G Saur Books,2001 **British Books in Print** ,1985 Cumulative Author Index to Psychological Abstracts ,1978 **Who's Who in the World, 1995** Marquis Who's Who,1995-12 This single volume affords instant access to more than 35 000 individual biographies of the people whose activities are shaping today s world Among those profiled are prominent government figures high ranking military officers leaders of the largest corporations in each country heads of religious organizations pioneers in science the arts many more
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