

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

Karin Nielsen-Saines

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Waec Marking Guide:

A Guide to School Certificate ENGLISH, **Journal of English Studies**, 1986 **Aspects in Language and Linguistic** Abubker Tijani Ibrahim Musa, Jean Paul Rurahoze Biterahoga, Akinwamide T. K., TOPICS IN THE BOOK Critical and Appreciative Reading of Wendell Berry and William Davies Poetic Projects Journey Metaphor in Achebe's No Longer at Ease Facilitating Independent and Collective Writing Skill Proficiency The Think Pair Share Strategy Involvement

Annual Conference Proceedings Science Teachers Association of Nigeria. Conference, 1999 *Handbook of Research on Enhancing Teacher Education with Advanced Instructional Technologies* Ololube, Nwachukwu Prince, 2015-07-17 Before today's teachers are ready to instruct the intellectual leaders of tomorrow they must first be trained themselves Information and communication technology can greatly increase the effectiveness of this training and also aid teachers as they seek to bring the latest technological advancements into their own classrooms The Handbook of Research on Enhancing Teacher Education with Advanced Instructional Technologies explains the need to bring technology to the forefront of teacher training With an emphasis on how information and communication technology can provide richer learning outcomes this book is an essential reference source for researchers academics professionals students and technology developers in various disciplines

Issues in Educational Measurement and Evaluation in Nigeria Omaze Anthony Afemikhe, J. Ghenga Adewale, 2004 **Indigenist African Development and Related Issues** Akwasi Asabere-Ameyaw, Jophus Anamuah-Mensah, George Sefa Dei, Kolawole Raheem, 2014-07-11 There is no term so heavily contested in social science literature nomenclature than Development This book brings Indigenous perspectives to African development It is argued that contrary to development as we know it not working a greater part of the problem is that conventional development approaches that work have in fact not truly been followed to the letter and hence the quagmire All this is ironic since everything we do about our world is development So how come there is difficult knowledge when it comes to learning from what we know i.e. what local peoples do and have done for centuries as a starting point to reconstructing and reframing development In getting our heads around this paradox we are tempted to ask more questions How do we as African scholars and researchers begin to develop home grown solutions to our problems How do we pioneer new analytical systems for understanding our communities and offer a pathway to genuine African development i.e. Indigenist African development see also Yankah 2004 How do we speak of Indigenist development mindful of global developments and entanglements around us Can we afford to pursue development still mired in a catch up scenario Are we in a race with the development world and where do we see this race ending or where do we define as the finishing line A Publication of the Centre for School and Community Science and Technology Studies SACOST University of Education Winneba Ghana **WAEC in Review** Benjamin Freeman Jr., 2014-11-07 WAEC in Review is a practical intervention strategy in transforming the weakening educational system of Liberia where academic excellence is unceasingly diminishing LIPACE Pilot Study Guide is not only a

landmark achievement in the educational history of Liberia but a remarkable strive towards the proper preparation of Liberian students for future diets of the WAEC exam As a member of the National Committee of the West African Examinations Council and a Stakeholder in the Liberian Education System I wish to recommend the use of this study guide to adequately prepare each and every Liberian student for future examinations thereby setting the stage for an easy transition to the emerging West African Senior Secondary Examinations WASSCE I am explicitly confident that you will definitely find your journey through this guide very rewarding as you prepare to sit the next WAEC Exam David S Massaquoi Sr director of Education The Salvation Army Liberia Command Education Secretariat Our students sit the exam in constant fear of proctors and supervisors They know nothing about the exam and its structure and this fear lead to them failing massively We need to build the confidence level of our students and help them to study hard and understand the roles of proctors and supervisors to stop the intimidation during the exam Thanks to LIPACE and the Turning the Tide project we have helped our students achieved an amazing achievement for the first time in the history of Gbarpolu County where all senior students successfully passed the exam Lartey Bemah principal of Bopolu Public School 2012 2013 Gbarpolu County Liberia

Exam Secrets in Literature-in-English: What JAMB, WAEC and NECO Want from Candidates Mazi Basil Nwokorie, Exam Secrets in Literature in English What JAMB WAEC NECO and NABTEB Want from candidates is specifically crafted for students and candidates who are preparing to take the examinations in Literature in English as administered by esteemed bodies such as Joint Admission And Matriculation Board JAMB West African Examination Council WAEC National Examination Council NECO and other similar institutions across Nigeria and Anglophonic West Africa With clear guidance and focused insights it equips candidates with the knowledge and strategies needed to succeed in these examinations confidently

Canfield Guide to Classical Recordings ,1995 *Academic Excellence in 21 Days* Eric Nwachukwu,2015-12-21 This book is for students who want to excel academically The guideposts and principles contained in this book will show you why and how you will become a high flying student I managed the local library of Our Lady of Fatima Cathedral Catholic Church Kano for over four years as an unqualified librarian and I see different students preparing for different exams in a mediocre way What is most shocking here is that most of these students are mediocre students due to the fact that they lack the right approach to learning studying and preparations required for academic excellence rather than the mere exertion of studies The principles in this book are no respecter of persons age gender race background or your location The results are the same to whoever would apply them It contains the distilled essence of all that you need to know and do in your academic journey to excellence This 21 Days course has SIX stages Each Days message material is divided into different sub sections dealing with one central topic literally and in a juxtapositions context Consequently the reader is allowed to exercise his her power of association and observation of ideas presented in connection to the other sub sections and signposts illustrated in the book with the application exercises

International Guide to Qualifications in Education ,1996 A comprehensive survey of the

education systems of 170 countries and an equivalence evaluation of the qualifications they offer This handbook is intended for admissions departments administrators and teaching staff in universities colleges and schools worldwide The Lonely Ones Among Us Oluwole Komolafe,2016-11-11 The Lonely Ones Among Us describes the arduous and slippery paths of the selected few that journey to success from the base of the economic pyramid of life in Nigeria In this book the author draws similarities between the capillary action in a rising damp to the determination that propels the poor that rise from the base of the economic pyramid to success by dint of hard work Mr Enilari Olakitan Ekun a humble science teacher in a secondary school in Lagos is the main character in the book His life exemplifies the challenges faced by the few that swim against the tide to liberate themselves from the bondage at the base of the economic pyramid Other characters with similar attributes to Mr Ekun are identified in the book What they all have in common is that they refuse to follow the accepted way of life that the society considers to be the norm They are the aberrant that see the problems others overlook or pretend not to see Instead of following the crowd they choose to follow the road of the lone wayfarer In summary the book shows that the old fashion way of hard work still pays off **School of Languages Conference Proceedings** ,2007 *Municipal Journal, Public Works Engineer and Contractors' Guide* ,1945 **Journal of Science and Technology, Kumasi, Ghana** ,2009 Daily Graphic Ransford Tetteh,2011-02-07 *Physics for You* Keith Johnson,2001 The most popular series for GCSE has been updated to offer comprehensive coverage of the revised GCSE specifications Physics for You has been updated in line with the revised National Curriculum requirements **Nigerian Journal of Science and Educational Research** ,2007 Impact of Examination Policy on Teaching Chemistry in Nigerian Secondary Schools David Afolayan Alao,1988

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