



GRADE 12 PHYSICAL SCIENCES
NOVEMBER EXAMINATION PAPER 2: CHEMISTRY

QUESTION 1

1.1 Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1.1-1.1.10) on your answer sheet, for example 1.1.11. D.

1.1.1 Catalyst required for a thermal cracking:

- A Strong acids
- B No catalyst required
- C Pt, Ni or Pd
- D FCC

1.1.2 The correct molecular structure for 3-methyl-2-pentanone:



1.1.3 Suffix for the homologous series of esters:

- A -ene
- B -oate
- C -oic acid
- D -al

1.1.4 The relationship between volume and pressure of a gas is:

- A Constant
- B Directly proportional
- C Inversely proportional
- D Independent

1.1.5 Organic homologous series with a double bond between oxygen and carbon:

- A Alkenes
- B Aldehydes
- C Alkynes
- D Alcohols

1.1.6 Which of the following will cause a **DECREASE** in reaction rate?

- A Presence of a catalyst
- B Increase in the concentration of the reactant
- C Decrease in the concentration of the reactant
- D Alteration of electrical conductivity of reactant particles

1.1.7 The product concentration of a chemical reaction is decreased. What would the result be referring to Le Chatelier's principles.

- A The reaction rate of the forward reaction would increase.
- B The reaction rate of the backward reaction would increase.
- C The activation energy would decrease.
- D The activation energy would increase.

1.1.8 Which of the following scenarios would **NOT** cause a change in the Maxwell Boltzmann distribution of a gas?

- A Temperature changes.
- B Concentration changes.
- C Adding a catalyst.
- D Pressure changes.

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Mathematical Modeling in Physical Sciences Dimitrios Vlachos, 2024-05-23 This volume gathers selected papers presented at the ICMSQUARE 2023 12th International Conference on Mathematical Modeling in Physical Sciences held in Belgrade Serbia from August 28 31 2023 This proceedings offers a compilation of cutting edge research which aims to advance the knowledge and development of high quality research in mathematical fields related to physics chemistry biology medicine economics environmental sciences and more Annually held since 2012 the ICMSQUARE conference serves as a platform for the exchange of ideas and discussions on the latest technological trends in these fields This book is an invaluable resource for researchers academicians and professionals in these areas seeking to stay up to date with the latest developments in mathematical modeling

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Hearing to Review the Future of Our Nation's Forests United States. Congress. House. Committee on Agriculture. Subcommittee on Department Operations, Oversight, Nutrition, and Forestry, 2009

Evolutionary Foundations of Economic Science Yuji Aruka, 2014-10-04 This book aims to discern and distinguish the essential features of basic economic theories and compare them with new theories that have arisen in recent years The book focuses on seminal economic ideas and theories developed mainly in the 1930s to 1950s because their emergence eventually led to new branches of economics The book describes an alternative analytical framework spreading through the interdisciplinary fields of socioeconophysics and sociodynamics The focus is on a set of branching or critical points that separate what has gone before from what has followed W Brian Arthur used the term redomaining when he referred to technological innovation In the present volume the author aims to re domain economic theories suited for a new social order Major technological innovations accompany not only changes in the economy and the market but changes in their meaning as well In particular the evolution of trading technology has changed the meaning of the invisible hand At the end of the last century the advent of socioeconophysics became a decisive factor in the emergence of a new economic science This emergence has coincided with changes in the implications of the economy and the market which consequently require a redomaining of economic science In this new enterprise the joint efforts of many scientists outside traditional economics have brought brilliant achievements such as power law distribution and network analysis among others However the more diverse the backgrounds of economic scientists the less integrated the common views among them may be resulting in a sometimes perplexing potpourri of economic terminology This book helps to mitigate those differences shedding light on current alternative economic theories and how they have evolved

Mountbatten Adrian Smith, 2010-04-30 Was he a far sighted war hero or an ambitious networker promoted well above his natural talent Admired as a modernising chief of staff a timely decoloniser and a genuine player on the world stage Mountbatten nevertheless continues to attract fierce criticism In this timely new biography Adrian Smith offers a fresh and convincing perspective depicting Mountbatten as a

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companion for any practitioner needing to get up to speed with the latest changes *The Many Worlds of Hugh Everett III*
Peter Byrne, 2010-05-06 Peter Byrne tells the story of Hugh Everett III 1930 1982 whose many worlds theory of multiple universes has had a profound impact on physics and philosophy Using Everett's unpublished papers recently discovered in his son's basement and dozens of interviews with his friends colleagues and surviving family members Byrne paints for the general reader a detailed portrait of the genius who invented an astonishing way of describing our complex universe from the inside Everett's mathematical model called the universal wave function treats all possible events as equally real and concludes that countless copies of every person and thing exist in all possible configurations spread over an infinity of universes many worlds Afflicted by depression and addictions Everett strove to bring rational order to the professional realms in which he played historically significant roles In addition to his famous interpretation of quantum mechanics Everett wrote a classic paper in game theory created computer algorithms that revolutionized military operations research and performed pioneering work in artificial intelligence for top secret government projects He wrote the original software for targeting cities in a nuclear hot war and he was one of the first scientists to recognize the danger of nuclear winter As a Cold Warrior he designed logical systems that modeled rational human and machine behaviors and yet he was largely oblivious to the emotional damage his irrational personal behavior inflicted upon his family lovers and business partners He died young but left behind a fascinating record of his life including correspondence with such philosophically inclined physicists as Niels Bohr Norbert Wiener and John Wheeler These remarkable letters illuminate the long and often bitter struggle to explain the paradox of measurement at the heart of quantum physics In recent years Everett's solution to this mysterious problem the existence of a universe of universes has gained considerable traction in scientific circles not as science fiction but as an explanation of physical reality Feyerabend's Formative Years. Volume 2. Feyerabend on Logical Empiricism, Bohm & Kuhn
Matteo Collodel, Eric Oberheim, 2024-08-27 The authors Matteo Collodel and Eric Oberheim take the reader on a journey through the early life of the famous Austrian philosopher Paul Feyerabend whose groundbreaking work *Against the Method* forged new paths in the philosophical understanding of science Collodel and Oberheim's book contains the translated correspondence of Feyerabend 1924 1994 with equally influential philosophers and scientists of the time including Rudolf Carnap Herbert Feigl Carl G Hempel J J C Smart David Bohm and Thomas Kuhn This book offers an entirely unique approach to the philosopher Paul Feyerabend Informative challenging and profound it immerses the reader deeply in the mind of a truly revolutionary philosopher of science The main focus lies on the explanation of Paul Feyerabend's ideas on logical empiricism and quantum mechanics which he developed especially in the 1960s In order to appreciate the celebrated work of the philosopher it is important to create an understanding of these formative years in Feyerabend's life and work Anyone who knows similar discussions like the paradigm shift of Thomas Kuhn or has a passion for history philosophy and science will be fascinated by the works of Paul Feyerabend As scientists and followers of Feyerabend Collodel and Oberheim strive to

pay respect to the philosopher and to make his work accessible to a whole new generation *Bibliography Related to Human Factors System Program* Richard J. Potocko,1964 *The Oxford Handbook of Sound Studies* Trevor Pinch,Karin Bijsterveld,2012-01-05 Written by the world s leading scholars and researchers in sound studies this handbook offers new and engaging perspectives on the significance of sound in its material and cultural forms *Scientific and Technical Aerospace Reports* ,1994 Annual Catalogues of British Official and Parliamentary Publications, 1894-1909 Great Britain. Her Majesty's Stationery Office,1975 A History of Scientific Journals Aileen Fyfe,Noah Moxham,Julie McDougall-Waters,Camilla Mørk Røstvik,2022-10-03 Modern scientific research has changed so much since Isaac Newton s day it is more professional collaborative and international with more complicated equipment and a more diverse community of researchers Yet the use of scientific journals to report share and store results is a thread that runs through the history of science from Newton s day to ours Scientific journals are now central to academic research and careers Their editorial and peer review processes act as a check on new claims and findings and researchers build their careers on the list of journal articles they have published The journal that reported Newton s optical experiments still exists First published in 1665 and now fully digital the Philosophical Transactions has carried papers by Charles Darwin Dorothy Hodgkin and Stephen Hawking It is now one of eleven journals published by the Royal Society of London Unrivalled insights from the Royal Society s comprehensive archives have enabled the authors to investigate more than 350 years of scientific journal publishing The editorial management business practices and financial difficulties of the Philosophical Transactions and its sibling Proceedings reveal the meaning and purpose of journals in a changing scientific community At a time when we are surrounded by calls to reform the academic publishing system it has never been more urgent that we understand its history

A Nuclear Weapons-Free World? Nick Ritchie,2012-10-29 President Obama and the UK Labour and Coalition governments have all backed the renewed momentum for serious progress towards a world free of nuclear weapons whilst the UK finds itself embarked on a controversial and expensive programme to renew its Trident nuclear weapons system What does the UK process tell about the prospects for disarmament **Environmental Risk Assessment** Ted Simon,2014-02-05 The purpose of risk assessment is to support science based decisions about how to solve complex societal problems The problems we face in the twenty first century have many social political and technical complexities Environmental risk assessment in particular is of increasing importance as a means of seeking to address the potential effects of

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