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Pearson Edexcel Level 1/Level 2 GCSE (9–1)
Tuesday 13 June 2023

Morning (Time: 1 hour 45 minutes) Paper reference **1CH0/2F**

Chemistry
PAPER 2

Foundation Tier

You must have:
 Calculator, ruler

Total Marks

Pearson Edexcel Level 1/ Level 2 GCSE (9-1) Chemistry Paper 2 Foundation Tier June 2023
Question Paper

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
 - *there may be more space than you need.*
- Calculators may be used.
- Any diagrams may NOT be accurately drawn, unless otherwise indicated.
- You must **show all your working out** with **your answer clearly identified** at the **end of your solution**.

Information

- The total mark for this paper is 100.
- The marks for **each** question are shown in brackets
 - *use this as a guide as to how much time to spend on each question.*
- In questions marked with an **asterisk** (*), marks will be awarded for your ability to structure your answer logically, showing how the points that you make are related or follow on from each other where appropriate.
- There is a periodic table on the back cover of the paper.

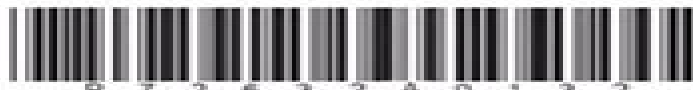
Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ➤

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Lingjun Ying



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The Assessment of Learning in Engineering Education John Heywood, 2016-04-11 Explores how we judge engineering education in order to effectively redesign courses and programs that will prepare new engineers for various professional and academic careers Shows how present approaches to assessment were shaped and what the future holds Analyzes the validity of teaching and judging engineering education Shows the integral role that assessment plays in curriculum design and implementation Examines the sociotechnical system's impact on engineering curricula **Economic and Social Survey, Jamaica**, 2013 **Nanotechnology for the Preparation of Cosmetics using Plant-Based Extracts** Siti Hamidah Mohd Setapar, Akil Ahmad, Mohammad Jawaid, 2022-02-18 Cosmetic manufacturers use nanoscale size ingredients to provide better UV protection deeper skin penetration long lasting effects increased color and finish quality This approach enables the forming of nanoscale cosmetic ingredients which can possess active components readily absorbed into the skin repair damage easily and promote improved product outcomes Nanotechnology for the Preparation of Cosmetics using Plant Based Extracts explores the various applications of nanotechnology in the cosmetic industry Techniques for the development of cosmetic are a topic of increasing interest with widespread opportunities for potential applications in a broad range of industrial applications The book covers a variety of techniques and processes focusing on its potential applications in the field of skincare and makeup cosmetics The book will cover not only conventional processes but also innovative and efficient techniques for the preparation of cosmetics exhibiting unique applications in the field Nanotechnology for the Preparation of Cosmetics using Plant Based Extracts is an important reference source for materials scientists engineers and pharmaceutical scientists who want to learn more about the use of cosmetics prepared through nanotechnology to achieve the materials characteristics and enhancements in the mechanism and properties of makeup and skincare Presents techniques for the design and manufacture of high performance skincare products using nanotechnology Demonstrates systematic approaches and investigations for the design synthesis characterization and applications of various plant based extracts in order to make them effective ingredients for cosmetics creation Assesses the major challenges of using plant based materials in the manufacture of cosmetic products *Biokerosene* Martin Kaltschmitt, Ulf Neuling, 2017-08-09 This book provides a detailed overview of aspects related to the overall provision chain for biokerosene as part of the global civil aviation business Starting with a review of the current market situation for aviation fuels and airplanes and their demands it then presents in depth descriptions of classical and especially new types of non edible biomass feedstock suitable for biokerosene provision Subsequent chapters discuss those fuel provision processes that are already available and those still under development based on various biomass feedstock materials and present e.g. an overview of the current state of the art in the production of a liquid biomass based fuel fulfilling the specifications for kerosene Further given the growing interest of the aviation industry and airlines in biofuels for aviation the experiences of an air carrier are presented In closing the book provides a

market outlook for biokerosene Addressing a broad range of aspects related to the pros and cons of biokerosene as a renewable fuel for aviation the book offers a unique resource New Developments in Engineering Education for Sustainable Development Walter Leal Filho,Susan Nesbit,2016-06-23 This book discusses essential approaches and methods in connection with engineering education for sustainable development Prepared as a follow up to the 2015 Engineering Education in Sustainable Development EESD Conference held in British Columbia Canada it offers the engineering community key information on the latest trends and developments in this important field Reflecting the need to address the links between formal and informal education the scholars and professionals who contribute to this book show by means of case studies and projects how the goal of fostering sustainable development in the context of engineering education can be achieved In particular they discuss the need for restructuring teaching at engineering focused institutions of higher education and provide practical examples of how to do so The book places special emphasis on state of the art descriptions of approaches methods initiatives and projects from around the world illustrating the contribution of engineering and affiliated sciences to sustainable development in various contexts and at an international scale Abstract Bulletin of the Institute of Paper Chemistry ,1980 *Alchemy of Herbs* Rosalee de la Forêt,2017-04-04 Did you know there s a powerful herbal medicine chest in your kitchen Imagine being prepared for that next cold scrape headache digestive issue stressful day or sleepless night with simple ingredients from your cupboard Instead of pills reach for Cinnamon Tea to soothe your throat Garlic Hummus to support your immune system Ginger Lemon Tea for cold and flu symptoms Cayenne Salve to relieve sore muscles Cardamom Chocolate Mousse Cake for heart health A glass of Spiced Cold Brew Coffee as a powerful antioxidant *Alchemy of Herbs* will show you how to transform common ingredients into foods and remedies that heal What were once everyday flavorings will become your personal kitchen apothecary While using herbs can often seem complicated or costly this book offers a way to learn that s as simple and inexpensive as cooking dinner With the guidance of herbalist Rosalee de la For t you ll understand how to match the properties of each plant to your own unique needs for a truly personalized approach to health for you and your family In addition to offering dozens of inspiring recipes Rosalee examines the history and modern day use of 29 popular herbs supporting their healing properties with both scientific studies and in depth research into herbal energetics Grow your knowledge of healing herbs and spices and start using nature s pharmacy to feed heal and nurture your whole family **Abstract Bulletin of the Institute of Paper Chemistry** Institute of Paper Chemistry (Appleton, Wis.),1959 **Journal of Applied Chemistry** ,1872 **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons,2014 Compliance & Prevention Quarterly ,2009 **The Building News and Engineering Journal** ,1881 **The Mechanics' Magazine and Journal of Engineering, Agricultural Machinery, Manufactures and Shipbuilding** ,1870 International Aerospace Abstracts ,1998 **Mechanics Magazine** John I Knight,1870 Residue Evaluation of Certain Veterinary Drugs Joint FAO/WHO Expert Committee on Food Additives.

Meeting,2014 This document contains monographs on residue evaluations of certain veterinary drugs prepared at the seventy eight meeting of the Joint FAO WHO Expert Committee on Food Additives JECFA which was held in Geneva Switzerland from 5 to 14 November 2013 Four substances were evaluated for the first time emamectin benzoate gentian violet lasalocid sodium and zilpaterol hydrochloride Four additional substances were re evaluated derquantel ivermectin monepantel and recombinant bovine somatotrophins The monographs provide information on chemical identity and properties of the compounds pharmacokinetics and metabolism residue depletion studies and analytical methods validated and used for the detection and quantification of the compounds In addition this document provides an overview of the pilot project to evaluate alternative approaches to estimate daily intakes of residues of veterinary drugs in foods and provides guidance on the extrapolation of MRLs to minor species and for the establishment of MRLs in honey This publication and other documents produced by JECFA contain information that is useful to all those who work with or are involved with recommending or controlling maximum residue limits for veterinary drugs in foods of animal origin

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Table of Contents June 2013 Papers As Level Chemistry

1. Understanding the eBook June 2013 Papers As Level Chemistry
 - The Rise of Digital Reading June 2013 Papers As Level Chemistry
 - Advantages of eBooks Over Traditional Books
2. Identifying June 2013 Papers As Level Chemistry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an June 2013 Papers As Level Chemistry
 - User-Friendly Interface
4. Exploring eBook Recommendations from June 2013 Papers As Level Chemistry
 - Personalized Recommendations
 - June 2013 Papers As Level Chemistry User Reviews and Ratings
 - June 2013 Papers As Level Chemistry and Bestseller Lists
5. Accessing June 2013 Papers As Level Chemistry Free and Paid eBooks
 - June 2013 Papers As Level Chemistry Public Domain eBooks
 - June 2013 Papers As Level Chemistry eBook Subscription Services
 - June 2013 Papers As Level Chemistry Budget-Friendly Options
6. Navigating June 2013 Papers As Level Chemistry eBook Formats

- ePub, PDF, MOBI, and More
 - June 2013 Papers As Level Chemistry Compatibility with Devices
 - June 2013 Papers As Level Chemistry Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of June 2013 Papers As Level Chemistry
 - Highlighting and Note-Taking June 2013 Papers As Level Chemistry
 - Interactive Elements June 2013 Papers As Level Chemistry
 8. Staying Engaged with June 2013 Papers As Level Chemistry
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers June 2013 Papers As Level Chemistry
 9. Balancing eBooks and Physical Books June 2013 Papers As Level Chemistry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection June 2013 Papers As Level Chemistry
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine June 2013 Papers As Level Chemistry
 - Setting Reading Goals June 2013 Papers As Level Chemistry
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of June 2013 Papers As Level Chemistry
 - Fact-Checking eBook Content of June 2013 Papers As Level Chemistry
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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