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Pearson Edexcel Level 1/Level 2 GCSE (9–1)

Monday 22 May 2023

Morning (Time: 1 hour 45 minutes)

Paper reference **1CH0/1F**

Chemistry

PAPER 1

Foundation Tier

You must have:
Calculator, ruler

Total Marks

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

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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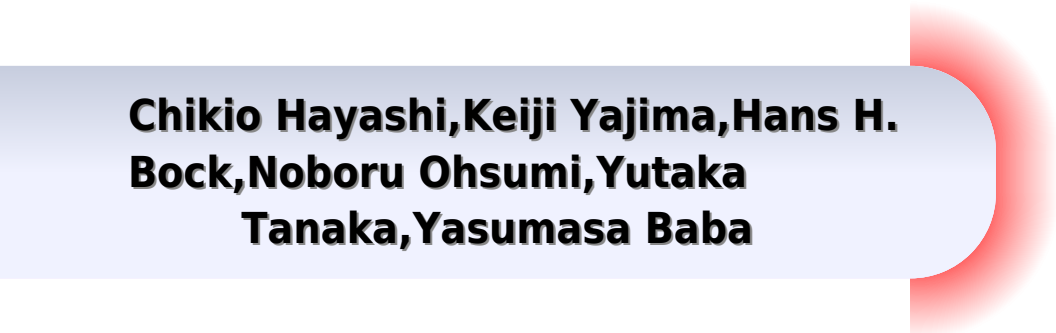


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May 2013 Chemistry Paper 1 Mark Scheme

**Chikio Hayashi, Keiji Yajima, Hans H.
Bock, Noboru Ohsumi, Yutaka
Tanaka, Yasumasa Baba**



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Edition Disha Experts, *Journal of the Chemical Society*, 1988 Encyclopedia of Food and Health, 2015-08-26 Approx 3876 pages Approx 3876 pages **Comparative Inorganic Chemistry** Bernard Moody, 2013-10-22 Comparative Inorganic Chemistry Third Edition focuses on the developments in comparative inorganic chemistry including properties of elements and the structure of their atoms electronic configuration of atoms of elements and the electronic theory of valency The manuscript first offers information on the development of fundamental ideas in 19th century chemistry as well as purification and identification of substances in the laboratory classical arguments for the existence of atoms and molecules and electrolytes ions and electrons The book also takes a look at the properties of elements and the structure of their atoms The classification of elements in the 19th century atomic nucleus divisible atoms nuclear reactions and fusions and artificial radioactivity and nuclear transmutations are discussed The book examines the electronic theory of valency and periodic classification including basic assumptions of the electronic theory hydration of ions ionic bond and the formation of ions and the development of the concept of valency The manuscript also ponders on bonding and the structures displayed by elements and their compounds oxidation reduction and electrochemical processes and the principles on the extraction of elements The publication is a dependable source of information for chemists and readers interested in inorganic chemistry *Chemical Toxicity Prediction* Mark T. D. Cronin, Judith Madden, Steven Enoch, David Roberts, 2013 The aim of this book is to provide the scientific background to using the formation of chemical categories or groups of molecules to allow for read across i e the prediction of toxicity from chemical structure It covers the scientific basis for this approach to toxicity prediction including the methods to group compounds structural analogues and or similarity mechanism of action and the tools to achieve this The approaches to perform read across within a chemical category are also described The book will provide concise practical guidance for those wishing to apply these methods in risk hazard assessment and will be illustrated with case studies Chemical Toxicity Prediction is the first book that addresses the concept of category formation and read across for toxicity prediction specifically This topic has really taken off in the past few years due to concerns over dealing with the REACH

legislation and also due to the availability of the OECD Q SAR Toolbox Much lengthy and complex guidance is available on category formation e g from the OECD and to a lesser extent the European Chemicals Agency but there is no one single source of information that covers all techniques in a concise user friendly format There is a real need for this information as in silico toxicology has come to the fore in recent years primarily as a result of the EU REACH legislation but also due to many other drivers e g reduction of animal testing Cosmetics regulation Category formation is seen as the only practical approach to make rational and transparent predictions for complex human toxicological endpoints The book covers all the areas required to create a robust category and perform read across

Zookeeping Mark D. Irwin, John B. Stoner, Aaron M. Cobaugh, 2013-12-09 As species extinction environmental protection animal rights and workplace safety issues come to the fore zoos and aquariums need keepers who have the technical expertise and scientific knowledge to keep animals healthy educate the public and create regional national and global conservation and management communities This textbook offers a comprehensive and practical overview of the profession geared toward new animal keepers and anyone who needs a foundational account of the topics most important to the day to day care of zoo and aquarium animals The three editors all experienced in zoo animal care and management have put together a cohesive and broad ranging book that tackles each of its subjects carefully and thoroughly The contributions cover professional zookeeping evolution of zoos workplace safety animal management taxon specific animal husbandry animal behavior veterinary care public education and outreach and conservation science Using the newest techniques and research gathered from around the world Zookeeping is a progressive textbook that seeks to promote consistency and the highest standards within global zoo and aquarium operations

Data Science, Classification, and Related Methods Chikio Hayashi, Keiji Yajima, Hans H. Bock, Noboru Ohsumi, Yutaka Tanaka, Yasumasa Baba, 2013-11-11 This volume contains selected papers covering a wide range of topics including theoretical and methodological advances relating to data gathering classification and clustering exploratory and multivariate data analysis and knowledge seeking and discovery The result is a broad view of the state of the art making this an essential work not only for data analysts mathematicians and statisticians but also for researchers involved in data processing at all stages from data gathering to decision making

Cannabis Robert Clarke, Mark Merlin, 2013-09-01 Cannabis Evolution and Ethnobotany is a comprehensive interdisciplinary exploration of the natural origins and early evolution of this famous plant highlighting its historic role in the development of human societies Cannabis has long been prized for the strong and durable fiber in its stalks its edible and oil rich seeds and the psychoactive and medicinal compounds produced by its female flowers The culturally valuable and often irreplaceable goods derived from cannabis deeply influenced the commercial medical ritual and religious practices of cultures throughout the ages and human desire for these commodities directed the evolution of the plant toward its contemporary varieties As interest in cannabis grows and public debate over its many uses rises this book will help us understand why humanity continues to rely on this plant and adapts it to suit our needs

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