

Please write clearly in block capitals.

Centre number

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Candidate number

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Surname

Forename(s)

Candidate signature

I declare this is my own work.

2023 AQA GCSE CHEMISTRY 8462/1F Paper 1 Foundation Tier Question Paper & Mark scheme (Merged) June 2023 [VERIFIED]

GCSE CHEMISTRY

Foundation Tier Paper 1

F

Monday 22 May 2023

Morning

Time allowed: 1 hour 45 minutes

Materials

For this paper you must have:

- a ruler
- a scientific calculator
- the periodic table (enclosed).

Instructions

- Use black ink or black ball-point pen.
- Pencil should only be used for drawing.
- Fill in the boxes at the top of this page.
- Answer **all** questions in the spaces provided. Do not write outside the box around each page or on blank pages.
- If you need extra space for your answer(s), use the lined pages at the end of this book. Write the question number against your answer(s).
- Do all rough work in this book. Cross through any work you do not want to be marked.
- In all calculations, show clearly how you work out your answer.

Information

- The maximum mark for this paper is 100.
- The marks for questions are shown in brackets.
- You are expected to use a calculator where appropriate.
- You are reminded of the need for good English and clear presentation in your answers.

For Examiner's Use	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
TOTAL	

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Mathematical Reviews, 2004 **The New York Times Page One, 1851-2002** BBS Publishing Corporation, Galahad Books, 2002 The Engineer, 1881 **39th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July**

20-23, 2003, Huntsville, Alabama: 03-4900 - 03-4949, 2003 *40th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 11-14, 2004, Fort Lauderdale, FL.: 04-4200 - 04-4230*, 2004 *Druggists' Circular and Chemical Gazette*, 1869 **Nanotechnology and Global Sustainability** Donald Maclurcan, Natalia Radywyl, 2018-09-03 The rise of

collaborative consumption peer to peer systems and not for profit social enterprise heralds the emergence of a new era of human collectivity Increasingly this consolidation stems from an understanding that big banner issues such as climate change are not the root causes of our present global predicament There is a growing and collective view that issues such as this are actually symptoms of a much more vicious seemingly insurmountable condition our addiction to economic consumption and population growth in a world of finite resources Nanotechnology and Global Sustainability uses nanotechnology the product of applied scientific knowledge to control and utilize matter at atomic and molecular scales as a lens through which to explore the interrelationship between innovation politics economy and sustainability This groundbreaking book addresses how stakeholders can actively reshape agendas to create positive and sustainable futures through this latest controversial cross sectoral technology It moves beyond issues of efficiency productivity and utility exploring the insights of 22 contributors from around the world whose work spans the disciplines of science and the humanities Their combined knowledge reinforced with various case studies introduces an exciting prospect how we can innovate without economic growth This new volume in the Perspectives in Nanotechnology series is edited by Dr Donald Maclurcan and Dr Natalia Radywyl Dr Maclurcan is a social innovator and Honorary Research Fellow with the Institute for Nanoscale Technology at the University of Technology Sydney Australia Dr Radywyl is a social researcher and Honorary Research Fellow in the School of Culture and Communication at the University of Melbourne Australia She is also an Adjunct Research Fellow in the Faculty of Life and Social Sciences at Swinburne University of Technology Melbourne This book is written for a wide audience and will be of particular interest to activists scholars policy makers scientists business professionals and others who seek an understanding of how we might justly transition to sustainable societies **Africa**

Water Atlas United Nations Environment Programme, 2010 This Africa Water Atlas is a visual account of Africa's endowment and use of water resources revealed through 224 maps and 104 satellite images as well as some 500 graphics hundreds of compelling photos plus a brief profile of the water situation in every country These visual elements vividly illustrate a succinct narrative describing and analysing Africa's water issues and exemplifying them through the judicious use of case studies The Atlas tells the paradoxical story of a continent with adequate renewable water resources but unequal access

because the water is either abundant or scarce depending on the season or the place it explores the opportunities to develop Africa's untapped water resources and human capacities to deliver safe drinking water and sanitation services to achieve the water related Millennium Development Goals As well as hydropower and irrigation services that help support livelihoods and boost economic development *Who's who in Australia* ,2007 *The Literary Gazette and Journal of Belles Lettres, Arts, Sciences, &c* ,1841 **The Athenaeum** ,1871 AIAA Journal American Institute of Aeronautics and Astronautics,2003 The Chemical Engineer ,2004 Literary Gazette and Journal of Belles Lettres, Arts, Sciences, Etc ,1841 **Making Profits, Protecting Our Planet** ,2005 This book i identifies a range of market and social forces driving the private sector toward more responsible environmental stewardship ii shows the need for governments the private sector and communities to adjust their relations iii and argues for enhanced enforcement of environmental regulations by governments even as they reach out to the private sector for stronger collaboration in environmental protection **Advanced Metallization Conference 2004 (AMC 2004)** Darrell Erb,2005 *People of Today* ,2002 **Organization Descriptions and Cross-references** Union of International Associations Staff,2010-08-13 Yearbook of International Organizations is the most comprehensive reference resource and provides current details of international non governmental NGO and intergovernmental organizations IGO Collected and documented by the Union of International Associations UIA detailed information on international organizations worldwide can be found here Besides historical and organizational information details on activities events or publications contact details biographies of the leading individuals as well as the presentation of networks of organizations are included Books In Print 2004-2005 Ed Bowker Staff,Staff Bowker, Ed,2004

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