



NATIONAL  
SENIOR CERTIFICATE

GRADE 11

NOVEMBER 2020

PHYSICAL SCIENCES P2  
(CHEMISTRY)  
EXEMPLAR

MARKS: 100  
TIME: 1 hour



The question paper consists of 10 pages, including 4 extra sheets.  
Use blue or black ink for writing. Do not use correction fluid.

# QUESTION 3

## PHYSICAL SCIENCES PAPER 2

## INTERMOLECULAR FORCES

**GRADE 11**

**NOVEMBER 2020**

Examiner's use: \_\_\_\_\_ Physical Sciences P2 \_\_\_\_\_

QUESTION 3 starts on a NEW page.

3.1 The boiling points in the table below were obtained during an investigation carried out to measure the boiling points of pure 1-hexanol. The table also lists the  $\Delta H_{\text{vap}}$  and  $\Delta H_{\text{fusion}}$  for 1-hexanol in kJ mol<sup>-1</sup> and 1 mol of 1-hexanol.

Compound	Molecular mass (M <sub>r</sub> )	Boiling point (°C)
A	102	16,2
B	102	21

- 3.1.1 Define the term boiling point. (2)
- 3.1.2 Is pure 1-hexanol only composed of A and B? or A, B and C? or all of them present? (2)
- 3.1.3 Name the type of intermolecular force that exists between molecules of both compounds A and B and its boiling point of these molecules. (2)
- 3.1.4 What effect, if any, does compound C have on the boiling point of pure 1-hexanol? (2)
- 3.1.5 What compound (A or B) will have the higher vapour pressure? (2)
- 3.1.6 What compound (A or B) will have the higher surface tension? (2)

Compound C (M<sub>r</sub> 102) will show in the table, has a smaller molecular mass than both compounds A and B but has a relatively higher boiling point of 16,2 °C.

- 3.1.6 Explain why the boiling point of compound C is 16,2 °C (lower than that of compound A and B) by referring to the  $\Delta H_{\text{vap}}$  and intermolecular or intramolecular forces involved. (2)

3.2 Substances D and E are shown in the diagram below. D and E are both 1-hexanol but show no change in the diagram below.



- 3.2.1 Is there any difference in the  $\Delta H_{\text{vap}}$  of the two substances? (2)
- 3.2.2 Explain the process in QUESTION 3.1.1 about the boiling in the intermolecular forces involved. (2)

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# Physical Science Paper2 November 2014

**Mike Callaghan, Tristram Sainsbury**



## **Physical Science Paper2 November 2014:**

**Handbook of the Politics of the Arctic** Leif Christian Jensen, Geir Hønneland, 2015-09-25 The Arctic has again become one of the leading issues on the international foreign policy agenda in a manner unseen since the Cold War Drawing on the perspectives of geo politics and international law this Handbook offers fresh insights and perspectives on the most pressing issues grouped under the headings of political ascendancy climate and environmental issues resources and energy and the response and policies of affected countries

**What We Think About When We Try Not To Think About Global Warming** Per Espen Stoknes, 2015 Today about 98 percent of scientists affirm that climate change is human made and about 2 percent still question it Despite that overwhelming majority though about half the population of rich countries like ours choose to believe the 2 percent And paradoxically this large camp of deniers grows even larger as more and more alarming proof of climate change has cropped up over the last decades This disconnect has both climate scientists and activists scratching their heads growing anxious and responding usually by repeating more facts to win the argument But the more climate facts pile up the greater the resistance to them grows and the harder it becomes to enact measures to reduce greenhouse gas emissions and prepare communities for the inevitable change ahead Is humanity up to the task It is a catch 22 that starts says psychologist and climate expert Per Espen Stoknes from an inadequate understanding of the way most humans think act and live in the world around them With dozens of examples he shows how to retell the story of climate change and apply communication strategies more fit for the task Publisher's description

**The World's Search for Sustainable Development** Mukul Sanwal, 2015-11-05 This text traces the evolution of sustainable development and climate change from the time it emerged in international consultations and agreements The three sections of the book focusing on the framework climate change and sustainable development seek to cover the essentials of the politics of natural resource usage at the global level The book explores the evolution of sustainable development and climate change within the framework of the United Nations and the way the concept has been defined through intergovernmental meetings agreements and consensus within the multilateral system It also explores the best ways of reducing the risk to the planet while enabling societies to pursue sustainable development paths The challenges call for a transformation of social systems to facilitate a broadly acceptable change The book also explores the adoption of low carbon models different from the high carbon socio technical systems and related social practices

**SOUVENIR of 3rd International Science Congress ISC-2013** Prof. Dipak Sharma, International Science Congress Association organized 3rd International Science Congress ISC 2013 with Innovation with Global Responsibility as its Focal Theme ISC 2013 is divided in 20 sections A total number of 900 Research Papers and 1000 registrations from 36 countries all over the world have been received They are mainly from India Iran Sudan Iraq South Africa Phillipines Pakistan Nighana Erode Czech Republic Bangladesh Swaziland Jordan USA Thailand Japan Malaysia Kazakhstan UK Colombia Nepal Italy Bulgariya Cameroun France Greece Kazakhstan Korea Lithuania

Nigeria Poland Romania Slovakiya Ukraine Venezuela and Turkey      *After the War* Ruth H. Howes, Caroline L. Herzenberg, 2015-12-01 This book examines the lives and contributions of American women physicists who were active in the years following World War II during the middle decades of the 20th century It covers the strategies they used to survive and thrive in a time where their gender was against them The percentage of PhD s in physics has risen for 6% in 1983 to 20% in 2012 an all time high for women By understanding the history of women in physics these gains can continue It discusses to major classes of women physicists those who worked on military projects and those who worked in industrial laboratories and at universities largely in the late 1940s and 1950s While it includes minimal discussion of physics and physicists in the 1960s and later this book focuses on the challenges and successes of women physicists in the years immediately following World War II and before the eras of affirmative actions and the use of the personal computer      **Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System** National Research Council, Division on Engineering and Physical Sciences, Board on Physics and Astronomy, Committee on a Strategy to Optimize the U.S. Optical and Infrared System in the Era of the Large Synoptic Survey Telescope (LSST), 2015-06-26 New astronomical facilities such as the under construction Large Synoptic Survey Telescope and planned 30 meter class telescopes and new instrumentation on existing optical and infrared OIR telescopes hold the promise of groundbreaking research and discovery How can we extract the best science from these and other astronomical facilities in an era of potentially flat federal budgets for both the facilities and the research grants Optimizing the U S Ground Based Optical and Infrared Astronomy System provides guidance for these new programs that align with the scientific priorities and the conclusions and recommendations of two National Research Council NRC decadal surveys New Worlds New Horizons for Astronomy and Astrophysics and Vision and Voyages for Planetary Sciences in the Decade 2013 2022 as well as other NRC reports This report describes a vision for a U S OIR System that includes a telescope time exchange designed to enhance science return by broadening access to capabilities for a diverse community an ongoing planning process to identify and construct next generation capabilities to realize decadal science priorities and near term critical coordination planning and instrumentation needed to usher in the era of LSST and giant telescopes      Bundled weather index insurance pilot for drought-affected areas in Sri Lanka Aheeyar, Mohamed, Samarakoon, Kalani, de Silva, Sanjiv, 2021-12-20      **Daily Graphic** Ransford Tetteh, 2014-09-19      *Global Governance and Rules for the Post-2015 Era* Jose Antonio Alonso, José Antonio Ocampo, 2015-08-27 Attention is increasingly being paid to the conceptualization of the sustainable development agenda that should guide global development efforts beyond 2015 New trends are shaping the international environment suggesting that the world emerging from the recent economic and financial crisis will probably be very different from the one we have known so far The emerging issues demand new concerted responses and new international efforts which will have to be framed by new rules and more democratic and inclusive mechanisms of global governance Global Governance and Rules for the Post 2015 Era provides a unique assessment

of global rules and governance a reflection of how global rules have been shaping development experiences and outcomes an identification of the shortcomings of current global governance mechanisms and innovative suggestions for reforming and improving them The various chapters analyse whether current rules and governance structures enables the building of effective responses against international problems and promote a fair distribution of development opportunities among countries This book is a timely contribution to the discussions on a new global development agenda undertaken under the leadership of the United Nations It reflects the outcome of a research programme by a group of independent development experts brought together by the United Nations Committee for Development Policy CDP a subsidiary body of the Economic and Social Council It will be of interest to policymakers worldwide experts of international agencies scholars students and the wider public

**Carbon Pricing** Larry Kreiser, Mikael Skou Andersen, Birgitte Egelund Olsen, Stefan Speck, Janet E. Milne, 2015-08-28 Carbon Pricing reflects upon and further develops the ongoing and worthwhile global debate into how to design carbon pricing as well as how to utilize the financial proceeds in the best possible way for society The world has recently witness

**Rhythm in Acting and Performance** Eilon Morris, 2017-07-27 Rhythm is often referred to as one of the key elements of performance and acting being of central importance to both performance making and training Yet what is meant by this term and how it is approached and applied in this context are subjects seldom discussed in detail Addressing these Rhythm in Acting and Performance explores the meanings mechanisms and metaphors associated with rhythm in this field offering an overview and analysis of the ways rhythm has been and is embodied and understood by performers directors educators playwrights designers and scholars From the rhythmic movements and speech of actors in ancient Greece to Stanislavski's use of Tempo rhythm as a tool for building a character and tapping emotions continuing through to the use of rhythm and musicality in contemporary approaches to actor training and dramaturgy this subject finds resonance across a broad range of performance domains In these settings rhythm has often been identified as an effective tool for developing the coordination and conscious awareness of individual performers ensembles and their immediate relationship to an audience This text examines the principles and techniques underlying these processes focusing on key approaches adopted and developed within European and American performance practices over the last century Interviews and case studies of individual practitioners offer insight into the ways rhythm is approached and utilised within this field Each of these sections includes practical examples as well as analytical reflections offering a basis for comparing both the common threads and the broad differences that can be found here Unpacking this often mystified and neglected subject this book offers students and practitioners a wealth of informative and useful insights to aid and inspire further creative and academic explorations of rhythm within this field

*The Routledge Atlas of South Asian Affairs* Robert W. Bradnock, 2015-10-14 South Asia has developed from a group of newly independent post Colonial states of at most secondary importance to the wider world to its current position as a region of central strategic importance to both global economic development and world peace and

stability This Atlas highlights the global significance of South Asia in relation to economic geopolitical and strategic interests It provides a coherent descriptive and analytical account of the key elements of the complex societies that make up the region and its component countries Illustrated with more than 100 original maps and offering concise entries on key issues the book is structured thematically in these sections Global Context Geographical Environments Historical Evolution of South Asia Key Issues in modern South Asia Economy and Security Designed for use in teaching undergraduate and graduate classes and seminars in geography history economics anthropology international relations political science and the environment as well as regional courses on the South Asia this book is also a comprehensive reference source for libraries and decision makers focusing on South Asia

**The G20 and the Future of International Economic Governance** Mike Callaghan, Tristram Sainsbury, 2015-10-01 The G20 needs to be bold and pragmatic if it is to deal effectively with the global economy's big issues Since its establishment in 1999 the G20 has become a key international forum But it suffers from inherent design flaws and remains a work in progress When Australia began its presidency of the 2014 summit in Brisbane many commentators suggested that Australia's chairing of the G20 would reinvigorate it This timely book looks at what was achieved at the Brisbane Summit and what has happened in its wake Crucially it explores what role the G20 could and should play in dealing with such pressing global issues as international taxation trade energy and climate change Expert contributors many of them former inside players assess the impact of the summit in the context of the year's broader geopolitical challenges including Russia's temporary expulsion from the G8 and the failure of the US to ratify its governance reforms to the IMF Taking stock contributors question the effectiveness of the G20 and identify the reforms that are needed if it is to offer strong leadership in an integrated global economy Together they ask what is the future of the G20 and other Gs

*An Assessment of ARPA-E* National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Board on Energy and Environmental Systems, Policy and Global Affairs, Board on Science, Technology, and Economic Policy, Committee on Evaluation of the Advanced Research Projects Agency-Energy (ARPA-E), 2017-08-28 In 2005 the National Research Council report *Rising Above the Gathering Storm* recommended a new way for the federal government to spur technological breakthroughs in the energy sector It recommended the creation of a new agency the Advanced Research Projects Agency Energy or ARPA E as an adaptation of the Defense Advanced Research Projects Agency DARPA model widely considered a successful experiment that has funded out of the box transformative research and engineering that made possible the Internet GPS and stealth aircraft This new agency was envisioned as a means of tackling the nation's energy challenges in a way that could translate basic research into technological breakthroughs while also addressing economic environmental and security issues Congress authorized ARPA E in the 2007 America COMPETES Act and requested an early assessment following 6 years of operation to examine the agency's progress toward achieving its statutory mission and goals This report documents the results of that assessment It includes both an operational assessment of the

agency's funding programs and a technical assessment of its awards to the extent possible      *Public Health and Welfare: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources, 2016-09-12 The prevention and treatment of diseases is a primary concern for any nation in modern society To maintain an effective public health system procedures and infrastructure must be analyzed and enhanced accordingly Public Health and Welfare Concepts Methodologies Tools and Applications provides a comprehensive overview of the latest research perspectives on public health initiatives and promotion efforts Highlighting critical analyses and emerging innovations on an international scale this book is a pivotal reference source for professionals researchers academics practitioners and students interested in the improvement of public health infrastructures      *Alternative Futures for Global Food and Agriculture* OECD, 2016-02-18 This report develops three contrasting scenarios to illustrate alternative futures based on several global economic models and extensive stakeholder discussions and outlines policy considerations to help ensure that future needs are met sustainably

**Environmental Security and India** Satabdi Das, 2022-08-26 This book examines environmental issues through the lens of security studies and presents a comprehensive analysis of Indian policy in dealing with threats posed by climate change This book Puts forward theoretical base for securitization of environmental issues incorporating different schools of thought Presents a survey of global environmental politics in general and the effects of climate change and its consequences for India's national security in particular Examines the politics involved in India's environmental policy at both the domestic and international levels Outlines key policy takeaways and possibilities for action that can help contain the threat of environmental change A comprehensive guide to a new and emerging dimension in Indian security policy this book will be essential reading for students and researchers of international relations security studies especially non traditional security public policy especially environmental policy and area studies      *Global Health 101* Skolnik, 2016 Rated by an independent panel as the best introductory Global Health text for undergraduates Global Health 101 Third Edition is a clear concise and user friendly introduction to the most critical issues in global health It illustrates key themes with an extensive set of case studies examples and the latest evidence Particular attention is given to the health development link to developing countries and to the health needs of poor and disadvantaged people The Third Edition is a thorough revision that offers an extensive amount of new and updated information while maintaining clarity simplicity and ease of use for faculty and students Offering the latest data on the burden of disease the book presents unique content on key topics that are often insufficiently covered in introductory materials such as immunization and adolescent health      *Handbook of Inclusive Innovation* Gerard George, 2019 The Handbook of Inclusive and Social Innovation The Role of Organizations Markets and Communities offers a comprehensive review of research on inclusive innovation to address systemic and structural issues the Grand Challenges of our time With 27 contributions from 57 scholars the Handbook provides frameworks and insights by summarising current research and highlights emerging practices and scalable solutions The contributions highlight a call to action and place

social impact at the heart of theory and practice It will be an invaluable resource for academics practitioners and policymakers who champion social inclusion and emphasize innovative approaches to addressing sustainable development goals

*Design* D.J. Huppertz, 2019-10-17 Design is everywhere It shapes not only our present but also our future An essential introductory guide Design The Key Concepts covers fundamental design concepts thinking service context interaction experience and systems Each concept is situated within a broad context enabling the reader to understand design s contemporary practice and its relationship to issues such as new technology social and economic development globalization and sustainability Concepts are also explained by use of concise illustrated case studies of contemporary objects spaces systems and methods such as Uber the iPhone Kickstarter and IKEA Chapter summaries and supporting discussion questions make this an engaging and accessible introduction for students and those new to the field An annotated bibliography provides direction for further reading



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