



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 ΔH_{vap} and ΔH_{fusion} for 1-hexanol in kJ mol⁻¹ and 1 mol of 1-hexanol.

Compound	Molecular mass (M _r)	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 composed of one (A) or (B) or (C) and list one of its uses? (2)
- 3.1.3 Name the type of intermolecular force that exists between molecules of pure compounds A and B and its boiling point of these molecules. (2)
- 3.1.4 What (one) of the compounds (A or B) has a (threefold) greater mass (molar mass)? (2)
- 3.1.5 Which compound (A or B) will have the higher vapour pressure? (2)
- 3.1.6 Which compound (A or B) will have the higher surface tension? (2)

Compound C (M_r 102) is shown in the table. Use a suitable intermolecular force that both compounds A and B have to identify liquid boiling point of 16,2 °C.

- 3.1.6 Explain why the boiling point of compound C is (higher/lower) than that of compound A and B by referring to the ΔH_{vap} and intermolecular or intermolecular forces involved. (2)

3.2 Substances D is added to water. It is a pure substance. D₂O and water is separated into two beakers in the diagram below.



- 3.2.1 Is water hard (D₂O) or soft, and the water (D₂O)? (2)
- 3.2.2 Explain the process in QUESTION 3.2.1 about the separating in the intermolecular forces involved. (2)

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Page 10 of 10

Physical Science Paper 2 Intermolecular Forces Investigation

M Woodhall



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Study Guide for CTET Paper 2 (Class 6 - 8 Teachers) Mathematics/ Science with Past Questions Disha

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Research in Education ,1972 *Investigating Chemistry* Matthew Johll,2006-03-17 Matthew Johll s book introduces students from a non science background to the fundamentals of chemistry through an array of examples and applications from real life crime scenes Sherlock Holmes stories and authentic accounts of drug deals murders and thefts

U.S. Government Research & Development Reports ,1970 *Energy Research Abstracts* ,1990 *Physics Briefs* ,1992 *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards,1951 *Scientific and Technical Aerospace Reports* ,1995 *Nuclear Science Abstracts* ,1971 *Sir James Dewar, 1842-1923* J.S. Rowlinson,2016-03-09 Sir James Dewar was a major figure in British chemistry for around 40 years He held the posts of Jacksonian Professor of Natural Philosophy at Cambridge 1875 1923 and Fullerian Professor of Chemistry at the Royal Institution 1877 1923 and is remembered principally for his efforts to liquefy hydrogen successfully in the field that would come to be known as cryogenics His experiments in this field led him to develop the vacuum flask now more commonly known as the thermos and in 1898 he was the first person to successfully liquefy hydrogen A man of many interests he was also with Frederick Abel the inventor of explosive cordite an achievement that involved him in a major legal battle with Alfred Nobel Indeed Dewar s career saw him involved in a number of public quarrels with fellow scientists he was a fierce and sometimes unscrupulous defender of his rights and his claims to priority in a way that throws much light on the scientific spirit and practice of his day This the first scholarly biography of Dewar seeks to resurrect and reinterpret a man who was a giant of his time but is now

sadly overlooked In so doing the book will shed much new light on the scientific culture of the late nineteenth and early twentieth centuries and the development of the field of chemistry in Britain

U.S. Government Research & Development Reports ,1970-04 Resources in Education ,1972-10 Journal of Research of the National Bureau of Standards ,1963 **High-Performance Computing Infrastructure for South East Europe's Research Communities**

Mihnea Dulea,Aneta Karaivanova,Anastasis Oulas,Ioannis Liabotis,Danica Stojiljkovic,Ognjen Prnjat,2013-08-13 This book is a collection of carefully reviewed papers presented during the HP SEE User Forum the meeting of the High Performance Computing Infrastructure for South East Europe s HP SEE Research Communities held in October 17 19 2012 in Belgrade Serbia HP SEE aims at supporting and integrating regional HPC infrastructures implementing solutions for HPC in the region and making HPC resources available to research communities in SEE region which are working in a number of scientific fields with specific needs for massively parallel execution on powerful computing resources HP SEE brings together research communities and HPC operators from 14 different countries and enables them to share HPC facilities software tools data and research results thus fostering collaboration and strengthening the regional and national human network the project specifically supports research groups in the areas of computational physics computational chemistry and the life sciences The contributions presented in this book are organized in four main sections computational physics computational chemistry the life sciences and scientific computing and HPC operations The Chemical News and Journal of Physical Science ,1914 *Advances in Gram-Negative Oxygenic Photosynthetic Bacteria Research and Application: 2012 Edition* ,2012-12-26 *Advances in Gram Negative Oxygenic Photosynthetic Bacteria Research and Application 2012 Edition* is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Gram Negative Oxygenic Photosynthetic B in a concise format The editors have built *Advances in Gram Negative Oxygenic Photosynthetic Bacteria Research and Application 2012 Edition* on the vast information databases of ScholarlyNews You can expect the information about Gram Negative Oxygenic Photosynthetic B in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of *Advances in Gram Negative Oxygenic Photosynthetic Bacteria Research and Application 2012 Edition* has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

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Table of Contents Physical Science Paper 2 Intermolecular Forces Investigation

1. Understanding the eBook Physical Science Paper 2 Intermolecular Forces Investigation
 - The Rise of Digital Reading Physical Science Paper 2 Intermolecular Forces Investigation
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Paper 2 Intermolecular Forces Investigation
 - 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 Physical Science Paper 2 Intermolecular Forces Investigation
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Paper 2 Intermolecular Forces Investigation
 - Personalized Recommendations
 - Physical Science Paper 2 Intermolecular Forces Investigation User Reviews and Ratings
 - Physical Science Paper 2 Intermolecular Forces Investigation and Bestseller Lists
5. Accessing Physical Science Paper 2 Intermolecular Forces Investigation Free and Paid eBooks
 - Physical Science Paper 2 Intermolecular Forces Investigation Public Domain eBooks
 - Physical Science Paper 2 Intermolecular Forces Investigation eBook Subscription Services
 - Physical Science Paper 2 Intermolecular Forces Investigation Budget-Friendly Options
6. Navigating Physical Science Paper 2 Intermolecular Forces Investigation eBook Formats

- ePub, PDF, MOBI, and More
 - Physical Science Paper 2 Intermolecular Forces Investigation Compatibility with Devices
 - Physical Science Paper 2 Intermolecular Forces Investigation Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Paper 2 Intermolecular Forces Investigation
 - Highlighting and Note-Taking Physical Science Paper 2 Intermolecular Forces Investigation
 - Interactive Elements Physical Science Paper 2 Intermolecular Forces Investigation
 8. Staying Engaged with Physical Science Paper 2 Intermolecular Forces Investigation
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Paper 2 Intermolecular Forces Investigation
 9. Balancing eBooks and Physical Books Physical Science Paper 2 Intermolecular Forces Investigation
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Paper 2 Intermolecular Forces Investigation
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physical Science Paper 2 Intermolecular Forces Investigation
 - Setting Reading Goals Physical Science Paper 2 Intermolecular Forces Investigation
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physical Science Paper 2 Intermolecular Forces Investigation
 - Fact-Checking eBook Content of Physical Science Paper 2 Intermolecular Forces Investigation
 - 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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