



education

Department:
Education
PROVINCE OF KWAZULU-NATAL

**NATIONAL
SENIOR CERTIFICATE**

GRADE 11

PHYSICAL SCIENCES P2 (CHEMISTRY)

COMMON TEST

SEPTEMBER 2019

MARKS: 150

TIME: 3 hours

**This question paper consists of 11 pages, 3 data sheets
AND a special answer sheet.**

Physical Science Grade 11 September 2011

Robert R. Redfield



Physical Science Grade 11 September 2011:

Urban Transport XVIII James W. S. Longhurst, C. A. Brebbia, 2012 This book contains the proceedings of the Eighteenth International Conference on Urban Transport and the Environment held in A Coruña, Spain, May 14-16, 2012. The papers presented at the conference cover topics such as Urban Transport Planning and Management, Transportation Demand Analysis, Traffic Integration and Control, Intelligent Transport Systems, Transport Modelling and Simulation, Land Use and Transport Integration, Public Transportation Systems, Environmental and Ecological Aspects, Air and Noise Pollution, Safety and Security, Energy and Transport, Fuels, Economic and Social Impact, and Advanced Transport Systems. **Contributing Factors to TIMSS 2011 Eighth Graders' Science Achievement: A Comparison between Malaysia and Singapore** Lay Yoon Fah, Ng Khar Thoe, Suma Parahakaran, 2020-05-03 Trends in International Mathematics and Science Study (TIMSS) is one of the projects of the International Association for the Evaluation of Educational Achievement (IEA) located at Amsterdam, The Netherlands, and Hamburg, Germany. IEA is an independent cooperative of national educational research institutions and governmental research agencies dedicated to improving education. TIMSS is conducted regularly for every four years to assess students' achievement in science and mathematics at both the fourth and eighth grades. The project is dedicated to providing participating countries with information to improve teaching and learning in science and mathematics. This book is written especially for the interest of undergraduate students, postgraduate students, and educators of science education who wish to know more about the contributing factors to Grade 8 students' science achievement in TIMSS. This book is also resourceful for individuals who are involved directly or indirectly in the administration and implementation of TIMSS at the national, state, district, and school levels. This book consists of seven chapters. The first chapter gives a brief introduction to TIMSS, which includes the TIMSS curriculum model and TIMSS science assessment frameworks. The subsequent chapters compare the contribution of various factors, i.e., home environment, support, school resources, school climate, teacher preparation, and classroom instructions, on Malaysian and Singaporean Grade 8 students' science achievement in TIMSS 2011. Last but not least, recommendations on ways to improve Malaysian Grade 8 students' science achievement in the forthcoming TIMSS are suggested based on the experiences of the Singaporean education system. **Official Gazette** Philippines, 2012

Logic and Critical Thinking in the Biomedical Sciences Jules J. Berman, 2020-07-03 Science is not a collection of facts. Science is the process by which we draw inferences from facts. Volume I of *Logic and Critical Thinking in the Biomedical Sciences* invites readers to linger over a collection of common observations to see what inferences can be drawn when one applies a bit of deductive logic. If we just think about what we observe, it is often possible to discover profound biomedical insights. Volumes 1 and 2 of *Logic and Critical Thinking in the Biomedical Sciences* are written for biomedical scientists and college-level students engaged in any of the life sciences, including bioinformatics and related data sciences. Provides a strong introduction to deductive methods that can be directly applied to the biomedical sciences. Using hundreds

of examples shows how creative scientists draw important inferences from observations that are often ignored by their peers Discusses complex biological and medical concepts in a relaxed manner intended to focus the reader's attention on the deductive process without dwelling excessively on details

Secondary Education in Ethiopia Rajendra Joshi,Adriaan Verspoor,2012-11-01 This book discusses reforms that should be undertaken in secondary education to support Ethiopia's transition from a low to middle income economy The most critical reform identified is the introduction of a flexible curriculum that serves the needs of all students including those who may not pursue higher education

Science Education in Canada Christine D. Tippet, Todd M. Milford,2019-07-01 This book offers a meso level description of demographics science education and science teacher education Representing all 13 Canadian jurisdictions the book provides local insights that serve as the basis for exploring the Canadian system as a whole and function as a common starting point from which to identify causal relationships that may be associated with Canada's successes The book highlights commonalities consistencies and distinctions across the provinces and territories in a thematic analysis of the 13 jurisdiction specific chapters Although the analysis indicates a network of policy and practice issues warranting further consideration the diverse nature of Canadian science education makes simple identification of causal relationships elusive Canada has a reputation for strong science achievement However there is currently limited literature on science education in Canada at the general level or in specific areas such as Canadian science curriculum or science teacher education This book fills that gap by presenting a thorough description of science education at the provincial territorial level as well as a more holistic description of pressing issues for Canadian science education

South Carolina State University William C Hine,2018-04-16 The turbulent history of one of South Carolina's historically black colleges and its significant role in the civil rights movement Since its founding in 1896 South Carolina State University has provided vocational undergraduate and graduate education for generations of African Americans Now the state's flagship historically black university it achieved this recognition after decades of struggling against poverty inadequate infrastructure and funding and social and cultural isolation In South Carolina State University A Black Land Grant College in Jim Crow America William C Hine examines South Carolina State's complicated start its slow and long overdue transition to a degree granting university and its significant role in advancing civil rights in the state and country A product of the state's separate but equal legislation South Carolina State University was a hallmark of Jim Crow South Carolina Black and white students were indeed provided separate colleges but the institutions were in no way equal When established South Carolina State emphasized vocational and agricultural subjects as well as teacher training for black students while the University of South Carolina offered white students a broad range of higher level academic and professional course work leading to a bachelor's degree Through the middle decades of the twentieth century South Carolina State was an incubator for much of the civil rights activity in the state The tragic Orangeburg massacre on February 8 1968 occurred on its campus and resulted in the deaths of three students and the wounding of twenty eight others Using the

university as a lens Hine examines the state s history of race relations poverty and progress and the politics of higher education for whites and blacks from the Reconstruction era into the twenty first century Hine s work showcases what the institution has achieved as well as what was required for the school to achieve the parity it was once promised This fascinating account is replete with revealing anecdotes more than sixty photographs and illustrations and a cast of famous figures including Benjamin R Tillman Coleman Blease Benjamin E Mays Marian Birnie Wilkinson Mary McLeod Bethune Modjeska Simkins Strom Thurmond Essie Mae Washington Williams James F Byrnes John Foster Dulles James E Clyburn and Willie Jeffries *Medical School Admission Requirements (Msar) 2011-2012* Aamc, Association of American Medical Colleges, 2010-03 **Conference proceedings. New perspectives in science education** Pixel, 2014 **International Handbook of Research in History, Philosophy and Science Teaching** Michael R. Matthews, 2014-07-03 This inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical curricular and pedagogical issues in the teaching of science and mathematics It is contributed to by 130 researchers from 30 countries it provides a logically structured fully referenced guide to the ways in which science and mathematics education is informed by the history and philosophy of these disciplines as well as by the philosophy of education more generally The first handbook to cover the field it lays down a much needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject The publication comes at a time of heightened worldwide concern over the standard of science and mathematics education attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects There is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science this handbook is uniquely positioned as a locus for the discussion The handbook features sections on pedagogical theoretical national and biographical research setting the literature of each tradition in its historical context It reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching and that lessons can be learnt from these engagements for the resolution of current theoretical curricular and pedagogical questions that face teachers and administrators Science educators will be grateful for this unique encyclopaedic handbook Gerald Holton Physics Department Harvard University This handbook gathers the fruits of over thirty years research by a growing international and cosmopolitan community Fabio Bevilacqua Physics Department University of Pavia [Independent Schools Yearbook 2012-2013](#) none, 2013-06-20 The highly respected book of reference of sought after Independent Schools in membership of the Independent Schools Council s Associations HMC GSA The Society of Heads IAPS ISA and COBIS **Never Too Late to Go Vegan** Carol J. Adams, Patti Breitman, Virginia Messina, 2014-01-28 If you re 50 or over and thinking or already committed to a vegan diet and lifestyle that will benefit your health animals and the planet look no further than this essential all in one resource Authors Carol J Adams Patti Breitman and Virginia Messina bring 75 years of vegan experience to this book to

address the unique concerns of those coming to veganism later in life with guidance on The nutritional needs that change with aging How your diet choices can reduce your odds of developing heart disease diabetes cancer and other conditions Easy steps for going vegan including how to veganize your favorite recipes and navigate restaurant menus travel and more How to discuss your decision to go vegan with friends and family The challenges of caring for aging or ailing relatives who are not vegan And many other topics of particular interest to those over 50 Warmly written down to earth and filled with practical advice plus insights from dozens of seasoned over 50 vegans Never Too Late to Go Vegan makes it easier than ever to reap the full rewards of a whole foods plant rich diet *Pediatrics, An Issue of Nursing Clinics* Patricia K.

Burkhart,2013-06-28 This issue of Nursing Clinics of North America Guest Edited by Patricia Burkhart PhD RN at University of Kentucky will focus on Pediatrics Article topics will include adolescent risky behavior diabetes abusive head trauma obesity and asthma preventive care disaster care for school children **The Communication Age** Autumn Edwards,Chad

Edwards,Shawn T. Wahl,Scott A. Myers,2015-12-07 We are in the communication age No matter who you are or how you communicate we are all members of a society who connect through the internet not just to it From face to face interactions to all forms of social media The Communication Age Second Edition invites you to join the conversation about today s issues and make your voice heard This contemporary and engaging text introduces students to the essentials of interpersonal small group and public communication while incorporating technology media and speech communication to foster civic engagement for a better future Handbook of Neuro-Oncology Neuroimaging Herbert B. Newton,2016-04-02 Remarkable

progress in neuro oncology due to increased utilization of advanced imaging in clinical practice continues to accelerate in recent years Refinements in magnetic resonance imaging MRI and computed tomography CT technology and the addition of newer anatomical functional and metabolic imaging methods such as MRS fMRI diffusion MRI and DTI MRI have allowed brain tumor patients to be diagnosed much earlier and to be followed more carefully during treatment With treatment approaches and the field of neuro oncology neuroimaging changing rapidly this second edition of the Handbook of Neuro Oncology Neuroimaging is so relevant to those in the field providing a single source comprehensive reference handbook of the most up to date clinical and technical information regarding the application of neuro Imaging techniques to brain tumor and neuro oncology patients This new volume will have updates on all of the material from the first edition and in addition will feature several new important chapters covering diverse topics such as advanced imaging techniques in radiation therapy therapeutic treatment fields response assessment in clinical trials surgical planning of neoplastic disease of the spine and more It will also serve as a resource of background information to neuroimaging researchers and basic scientists with an interest in brain tumors and neuro oncology Provides a background to translational research and the use of brain imaging for brain tumors Contains critical discussions on the potential and limitations of neuroimaging as a translational tool for the diagnosis and treatment of brain tumor and neuro oncology patients Presents an up to date reference on advanced imaging

technologies including computed tomography CT magnetic resonance imaging MRI and positron emission tomography PET as well as the recent refinements in these techniques The Nobel Collection, Volume 1 Robert Knight, Idan Segev, 2023-01-30 Humans are highly curious we are eager to understand ourselves and the world around us and we love the feeling of discovering something new Some people choose to become scientists and devote their lives to exploring and understanding the laws of nature and life itself A scientific understanding of the natural world is critical for developing new technologies and materials and for curing devastating diseases Every scientist makes discoveries that contribute to the constantly expanding body of human knowledge Occasionally scientists even discover entirely new phenomena that transform the way we understand the universe Think of Albert Einstein's famous theories for example or the pioneering work of Marie Skłodowska-Curie which led to the discovery of new elements and advanced the treatment of certain cancers Indeed her discovery of radioactivity paved the way for both the diagnosis via X-rays and treatment of cancer via radiation therapy Groundbreaking discoveries such as these usually result from a combination of knowledge dedication brilliance and good luck Each year we celebrate these transformative discoveries by awarding Nobel Prizes in chemistry physics economics and physiology or medicine These prizes represent our highest level recognition of the scientific accomplishments that have changed the world for the better Now in 2021 exactly 120 years after the first Nobel Prize was awarded we launch this special Nobel Collection in Frontiers for Young Minds This Collection brings you articles by Nobel laureates written specifically for young minds In this first of its kind collection Nobel Prize winners explain their amazing discoveries and describe how they accomplished them These Nobel laureates share their thoughts on research and what it means to be a scientist and they even provide advice for becoming a successful researcher and living a happy meaningful life Like all Frontiers for Young Minds articles these articles have been reviewed and approved by kids like you Did you know that Nobel Prize winners and Young Minds readers have several important traits in common The first is curiosity The scientific journeys of Nobel laureates are often fueled by an intense child-like curiosity the same curiosity that motivates you to read these articles Many Nobel laureates also manage to stay as open-minded as Young Minds readers they keep their opinions flexible and can be persuaded to change their minds when new data challenges their existing beliefs In the words of 2014 Nobel laureate May-Britt Moser I believe that it is important to maintain your curiosity about things both now and as an adult and find something that you have a passion for that makes you enthusiastic and feel alive For myself I can say that I am very curious about things and that it is extremely important for me to understand things It gives me so much pleasure when I understand something that I did not understand before this is my leading star We hope that this unique new Collection will be your leading star that it will help you to further develop your own curiosity and openness and that it inspires you reach for new discoveries in your own life **Five Big Ideas for Effective Teaching** Donna Wilson, Marcus Conyers, 2020 This is the second edition of the seminal text designed to empower educators with an innovative and inspiring conceptual framework for

effective teaching This bestseller is grounded in the synergy of five big ideas for connecting mind brain and education research to classroom practice neuroplasticity potential malleable intelligence the Body Brain System and metacognition Updated and expanded to include new sections on social and emotional learning this edition offers a firm foundation for implementing current rigorous standards The authors draw on their experience working with tens of thousands of educators worldwide to drive the book s focus on practical application Essential ideas are reinforced through vignettes examples inspirational stories from teachers strategies reflective questions and current research on how people learn New for the Second Edition An exploration of how guiding students to develop social emotional cognitive affective and behavioral competencies can improve their personal relationships peer and teacher interactions and academic outcomes An examination of recent advances in understanding how brain plasticity extends over the life span how working memory supports students to tackle more complex learning tasks and how teaching students about growth mindsets can power learning A synthesis of the science behind the power of positivity learning potential metacognition the social aspects of cognition and the Body Brain System for classroom and school applications An expanded reference list with relevant new publications

International Handbook of Research on Conceptual Change Stella Vosniadou, 2013-07-18 Conceptual change research investigates the processes through which learners substantially revise prior knowledge and acquire new concepts Tracing its heritage to paradigms and paradigm shifts made famous by Thomas Kuhn conceptual change research focuses on understanding and explaining learning of the most the most difficult and counter intuitive concepts Now in its second edition the International Handbook of Research on Conceptual Change provides a comprehensive review of the conceptual change movement and of the impressive research it has spawned on students difficulties in learning In thirty one new and updated chapters organized thematically and introduced by Stella Vosniadou this volume brings together detailed discussions of key theoretical and methodological issues the roots of conceptual change research and mechanisms of conceptual change and learner characteristics Combined with chapters that describe conceptual change research in the fields of physics astronomy biology medicine and health and history this handbook presents writings on interdisciplinary topics written for researchers and students across fields

Pet Loss, Grief, and Therapeutic Interventions Lori Kogan, Phyllis Erdman, 2019-08-13 This book recognizes and legitimizes the significance of pet and animal loss by exploring the various expressions of trauma and grief experienced by those who work with live with or own an animal or pet The chapters of Pet Loss Grief and Therapeutic Interventions weave together cutting edge research with best practices and practical clinical advice for working with grieving clients Beginning with an overview of the human animal bond the book guides readers through the many facets of pet loss including topics such as animal hospice and euthanasia offering a comprehensive account of one of the field s most rapidly emerging areas Designed to help mental health professionals support clients coping with pet loss the collection explores personal narratives current theories up to date research and future directions This unique and comprehensive book

will be of interest to students clinicians academicians and researchers in the fields of counseling psychology and social work
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the objectives of the boiling point determination lab were to determine the boiling point of a mystery substance provided to each student boiling point is the point at which a liquid changes physical states and becomes a vapor or gas boiling point is important to understand because it can be used to help distinguish between different substances

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the boiling point of an organic liquid is the temperature at which its vapour pressure equals the atmospheric pressure over the liquid or it is the temperature at which the vapour and liquid phases are in equilibrium at a given pressure the boiling point is considered as a criterion of purity of a compound and is useful for identification of

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given that the boiling points of ethanol and methanol 78 c and 64 c respectively are far off in a significant way this seems like a valid conclusion conclusion thermometer calibrations are necessary in order to collect reliable information as precise calculations are imperative to gathering correct results

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melting point 1 a push the open end of a capillary tube into the powdered acetamide b move the powder to the closed end of the capillary tube by tapping it on the table repeat until the powdered acetamide occupies 1 2 mm of the capillary tube end c

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boiling point determination lab report conclusion objectives to correctly measure boiling issues of various liquids and identify an unknown liquid based on its boiling point background information objects can be distinguished into acid properties and physical properties

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discussion and conclusion the technique recrystallization was used because it is a simple method to purify a solid compound the percentage yield for benzoic acid and acetanilide acid being high indicated the initial sample had a low concentration of impurities with the melting point being in a specific

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introduction in this lab we will be using boiling points melting points and infrared spectrometry to identify unknown compounds boiling points are affected by three key factors the first being intermolecular forces inter molecular affect boiling point based on bond strength

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determination of boiling points introduction the boiling point of a compound is the temperature at which it changes from a liquid to a gas this is a physical property often used to identify substances or to check the purity of the compound it

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clean up solid and liquid spills immediately true conclusions after conducting the boiling point determination lab it can be concluded that the unknown substance 193 is isopropyl alcohol on account of its observed boiling point of 88 c

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conclusion after completing this experiment the melting point of three different unknown compounds was obtained using the melting point apparatus compound a had a melting point range of 114.6-115.5 c thus revealing it to be acetanilide compound b had a melting point range of 122.6-124.5 c thus

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nov 27 2019 essay sample the purpose of this experiment is to determine the boiling points of various organic compounds and to use these to identify unknowns equipment free essays

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melting point can be used as the identity and purity of an organic solid however it is not the same as the boiling point the boiling point is a characteristic unique of pure liquids the boiling point is the temperature at which the vapor pressure of a liquid is equal to the atmospheric pressure

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aug 11 2020 boiling points are very sensitive to changes in applied pressure so all boiling points should be reported with the

measured pressure a compound's normal boiling point refers to its boiling point at a pressure of 760 mm Hg

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the purpose of the experiment is to understand what vapour pressure is and how it changes with temperature to understand the relationship between vapour pressure at a given temperature and boiling temperature at a given pressure to determine the vapour pressure of a pure liquid at various temperatures

exploring boiling points sharmin khatun chem 1141 studocu - May 17 2023

exploring boiling points abstract in this experiment we are given a set of straight chain alkanes and a set of compounds to compare by following the trendline of the straight chain alkanes it could be concluded that as the molar mass of the straight chain alkanes increases their boiling points increase as well

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laboratory partners samantha and mackenzie goals ☐ correctly determine the boiling point of an unknown liquid ☐ measure the refractive index of an unknown ☐ use the gas chromatogram to determine the mass percentage of a mixture and

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50 °C so in order to convert an experimental measurement taken in Calgary which is at higher altitude than sea level and so is at a lower pressure to that reported for sea level higher pressure one needs to add a correction factor since the boiling point at sea level is higher than that at higher altitudes

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introduction in chemistry one may encounter an unknown substance that needs to be determined by physical properties such as boiling point melting point density solubility etc in this experiment I aim to figure out the boiling point of a mystery substance in order to identify it chemical responsibility this experiment requires the handling of a Bunsen burner boiling

6.2b step by step procedures for boiling point determination - Mar 15 2023

there are a variety of methods by which a sample's boiling point can be determined including distillation reflux and by using a Thiele tube the most straightforward method uses a Thiele tube and has the advantage of using less than 0.5 mL of material

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