

# STANMORE SECONDARY SCHOOL

EXAMINER: MRS J RAMSEWAK

MODERATOR: MR S HARICHURN

MARKS: 120

DURATION: 2 HOUR

**LIFE SCIENCES**  
**CONTROLLED TEST**  
**NOVEMBER 2022**

**GRADE 11**

N.B. This question paper consists of 3 QUESTIONS and 10 PAGES.

## INSTRUCTIONS AND INFORMATION

Read the following instructions carefully before answering the questions.

1. Answer ALL the questions.
2. Write ALL the answers in the ANSWER BOOK.
3. Number the answers correctly according to the numbering system used in this question paper.
4. Present your answers according to the instructions of each question.
5. ALL drawings must be done in pencil and labelled in blue or black ink.
6. Write neatly and legibly.

# Life Science Grade 11 Paper 2 November 2014

**Michael Rajnik**



## **Life Science Grade 11 Paper 2 November 2014:**

**The Schenley Experiment** Jake Oresick, 2017-04-14 The Schenley Experiment is the story of Pittsburgh's first public high school a social incubator in a largely segregated city that was highly even improbably successful throughout its 156 year existence Established in 1855 as Central High School and reorganized in 1916 Schenley High School was a model of innovative public education and an ongoing experiment in diversity Its graduates include Andy Warhol actor Bill Nunn and jazz virtuoso Earl Hines and its prestigious academic program and pensions lured such teachers as future Pulitzer Prize winner Willa Cather The subject of investment as well as destructive neglect the school reflects the history of the city of Pittsburgh and provides a study in both the best and worst of urban public education practices there and across the Rust Belt Integrated decades before *Brown v Board of Education* Schenley succumbed to default segregation during the white flight of the 1970s it rose again to prominence in the late 1980s when parents camped out in six day long lines to enroll their children in visionary superintendent Richard C Wallace's reinvigorated school Although the historic triangular building was a cornerstone of its North Oakland neighborhood and a showpiece for the city of Pittsburgh officials closed the school in 2008 citing over 50 million in necessary renovations a controversial event that captured national attention Schenley alumnus Jake Oresick tells this story through interviews historical documents and hundreds of first person accounts drawn from a community indelibly tied to the school A memorable important work of local and educational history his book is a case study of desegregation magnet education and the changing nature and legacies of America's oldest public schools

**Women in Science Now** Lisa M. P. Munoz, 2023-10-31 Silver Medal in the Social Change and Social Justice Category 2024 Nautilus Book Awards Winner 2024 Choice Outstanding Academic Title Women working in the sciences face obstacles at virtually every step along their career paths From subtle slights to blatant biases deep systemic problems block women from advancing or push them out of science and technology entirely Women in Science Now examines solutions to this persistent gender gap offering new perspectives on how to make science more equitable and inclusive for all This book shares stories and insights of women from a range of backgrounds working in various disciplines illustrating the journeys that brought them to the sciences the challenges they faced along the way and the important contributions they have made to their fields Lisa M P Munoz combines these narratives with a wealth of data to illuminate the size and scope of the challenges women scientists face while highlighting research based solutions to help overcome these obstacles She presents groundbreaking studies in social psychology and organizational behavior that are informing novel approaches for combating historic and ongoing inequities Through a combined focus on personal experiences and social science research this timely book provides both a path toward greater gender equity and an inspiring vision of science and scientists

*Pennsylvania Government and Politics* Thomas J. Baldino, Paula A. Duda Holoviak, 2024-03-12 This book provides a comprehensive examination of the Keystone State's formal and informal political institutions and players past and present and elucidates the place each holds in

governing the commonwealth today Covering a period of more than three hundred years this volume presents a clear and succinct overview of the commonwealth's political history culture and geography interactions between office holders civil servants special interest groups and the media policy development and implementation how laws are created enacted and enforced hierarchy and interaction among state county local and special district government bodies and officials tax collection and disbursement and the political upheaval in the wake of the COVID 19 pandemic and the 2020 presidential election Featuring practical appendixes and interviews with current and past office holders bureaucrats party leaders and political journalists this astute and informative book is an indispensable tool for understanding politics in the Keystone State

**Mathematics (Education) in the Information Age** Stacy A. Costa, Marcel Danesi, Dragana Martinovic, 2020-12-10 This book brings together ideas from experts in cognitive science mathematics and mathematics education to discuss these issues and to present research on how mathematics and its learning and teaching are evolving in the Information Age Given the ever broadening trends in Artificial Intelligence and the processing of information generally the aim is to assess their implications for how math is evolving and how math should now be taught to a generation that has been reared in the Information Age It will also look at the ever spreading assumption that human intelligence may not be unique an idea that dovetails with current philosophies of mind such as posthumanism and transhumanism The role of technology in human evolution has become critical in the contemporary world Therefore a subgoal of this book is to illuminate how humans now use their sophisticated technologies to chart cognitive and social progress Given the interdisciplinary nature of the chapters this will be of interest to all kinds of readers from mathematicians themselves working increasingly with computer scientists to cognitive scientists who carry out research on mathematics cognition and teachers of mathematics in a classroom

Health Informatics - E-Book Ramona Nelson, Nancy Staggers, 2016-12-08 Awarded second place in the 2017 AJN Book of the Year Awards in the Information Technology category See how information technology intersects with health care Health Informatics An Interprofessional Approach 2nd Edition prepares you for success in today's technology filled healthcare practice Concise coverage includes information systems and applications such as electronic health records clinical decision support telehealth ePatients and social media tools as well as system implementation New to this edition are topics including data science and analytics mHealth principles of project management and contract negotiations Written by expert informatics educators Ramona Nelson and Nancy Staggers this edition enhances the book that won a 2013 American Journal of Nursing Book of the Year award Experts from a wide range of health disciplines cover the latest on the interprofessional aspects of informatics a key Quality and Safety Education for Nurses QSEN initiative and a growing specialty area in nursing Case studies encourage higher level thinking about how concepts apply to real world nursing practice Discussion questions challenge you to think critically and to visualize the future of health informatics Objectives key terms and an abstract at the beginning of each chapter provide an overview of what you will learn Conclusion and Future Directions section at the end of

each chapter describes how informatics will continue to evolve as healthcare moves to an interprofessional foundation NEW Updated chapters reflect the current and evolving practice of health informatics using real life healthcare examples to show how informatics applies to a wide range of topics and issues NEW mHealth chapter discusses the use of mobile technology a new method of health delivery especially for urban or under served populations and describes the changing levels of responsibility for both patients and providers NEW Data Science and Analytics in Healthcare chapter shows how Big Data as well as analytics using data mining and knowledge discovery techniques applies to healthcare NEW Project Management Principles chapter discusses proven project management tools and techniques for coordinating all types of health informatics related projects NEW Contract Negotiations chapter describes strategic methods and tips for negotiating a contract with a healthcare IT vendor NEW Legal Issues chapter explains how federal regulations and accreditation processes may impact the practice of health informatics NEW HITECH Act chapter explains the regulations relating to health informatics in the Health Information Technology for Education and Clinical Health Act as well as the Meaningful Use and Medicare Access CHIP Reauthorization Act of 2015

*Hosting States and Unsettled Guests* Jennifer Riggan, Amanda Poole, 2024-02-06 As wealthy countries build walls to keep migrants out countries in the Global South are celebrated for their hospitality towards refugees *Hosting States and Unsettled Guests* asks the question did these policies enable refugees to consider their new country home Beginning in 2016 Ethiopia promoted local integration economic opportunities and access to education for refugees in order to encourage them to stay long term rather than migrate towards Europe But by 2020 a political overhaul and the outbreak of war in Northern Ethiopia foreclosed these opportunities particularly for Eritrean refugees in Ethiopia How did Eritrean refugees envision their future in light of the discrepancy between promising policies and ongoing instability Using ethnographic interviews and participant observation with government officials NGOs and refugees in three camps in northern Ethiopia and Addis Ababa Jennifer Riggan and Amanda Poole explore refugee notions of progress care hope and futurity Caught at the intersection of teleological violence and temporal agency refugees endure the present and tenaciously produce a sense of the future even when their efforts to progress are repeatedly challenged An important read *Hosting States and Unsettled Guests* makes key empirical and theoretical contributions in forced migration studies East African studies anthropology and international education Riggan and Poole deftly shift the focus of refugee studies away from Europe to regions in the Global South to understand the violence of emerging forms of migration deterrence

**Canadian Books in Print** ,1991 **National Stockman and Farmer** ,1906 **Parliamentary Debates (Hansard)**. Great Britain. Parliament. House of Commons,2010 **The College Handbook** College Entrance Examination Board,1985 Presents information on 4 year colleges and universities and 2 year community colleges and technical schools *Radio News* ,1921 Some issues 1943 July 1948 include separately paged and numbered section called Radio electronic engineering edition called Radionics edition in 1943 *Sustaining Human Progress* Khalid Malik,2014 Most poeple in most countries have been

steadily better in human development Advances in technology and incomes hold ever greater for longer healthier more secure lives     **The Church Times** ,1904     *Industrial Development Report* United Nations Publications,2016-01-14 This report looks at how technology and innovation achieves inclusive and sustainable industrial development ISID Its main finding is that ISID is feasible and technology can simultaneously serve all three dimensions of sustainability including economic social and environmental Rapid inclusive and sustainable industrialization can happen more frequently provided that policymakers firmly steer the industrialization process with opportune policies and avoid past mistakes In some cases the spread of technology has not materialized in concrete growth opportunities because of the lack of technological capabilities Innovation needs to be supported by interventions strengthening the process from invention to adoption as capabilities are developed and high tech manufacturing sectors are created seeing higher rates of sustainable growth

Cumulative Author Index to Psychological Abstracts ,1975     **National Union Catalog** , Includes entries for maps and atlases     *Normal Instructor* ,1966     **U S NEWS ULTIMATE COLLEGE DIRECTORY 2004** MCGRATH ANNE (EDITOR),2003     **The Commercial and Financial Chronicle** ,1953-03     **Security Owner's Stock Guide** ,1971-08

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web the wattmeter is an instrument for measuring the electric active power or the average of the rate of flow of electrical energy in watts of any given circuit electromagnetic wattmeters are used for measurement of utility frequency and audio frequency power other types are required for radio frequency measurements

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web aug 19 2022 operating principle the operation of dynamometer type wattmeter is based on the fact that a mechanical force acts between two current carrying conductors induction wattmeter operates on the principle of electromagnetic induction i e a changing magnetic field can induce an emf in a conductor circuit

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web feb 24 2012 now there are two types of induction meters and they are written as follows single phase type three phase type induction meters here we are going to discuss about the single phase induction type in detail given below is the picture of single phase induction type meter

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web mar 17 2021 figure h constructional details of induction type wattmeter induction type wattmeters have two laminated iron core electromagnets one of the electromagnets is excited by the load current and the other by a current proportional to the voltage of the circuit in which the power is to be measured

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web induction type wattmeter this type of wattmeter can be used on both ac and dc system in carefully designed instruments it provides high degree of accuracy this wattmeter has less power consumption criteria weight of moving system in this system is reasonably low this is in uniform scale it has relatively weaker working torque the type of

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web feb 15 2019 explain the construction and operation of a dynamometer type wattmeter a with neat diagram 2 explain the construction and operation of single phase induction type energy meter with a neat diagram 3 describe the calibration of wattmeter with a neat circuit diagram 4 list the any 3 errors in watt meters cognitive level application 1

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