



GRADE 11 LIFE SCIENCES MARCH TEST

SECTION A QUESTION 1

1.1 Various options are provided as possible answers to the following questions. Choose the correct answer and write **ONLY** the LETTER (A-D) next to the QUESTION NUMBER (1.1.1-1.1.5) on your answer sheet, for example 1.1.B. D.

1.1.1 Which of the following micro-organisms act as decomposers in ecosystems?

- (i) *Escherichia*
 - (ii) *Paramecium*
 - (iii) *Penicillium*
 - (iv) *Trichoderma*
- A (i) and (ii)
B (ii) and (iv)
C (i) and (iii)
D (iii) and (iv)

1.1.2 Malaria is spread by:

- A *Plasmodium vivax* mosquito
- B *Anopheles gambiae*
- C *Culex quinquefasciatus*
- D *Aedes albopictus*

1.1.3 Protists are unlike bacteria in that they...

- A have prokaryotic cells
- B are eukaryotic
- C are unicellular organisms
- D are autotrophic

1.1.4 Which statement best describes the relationship between a parasite and its host?

- A The parasite benefits, the host benefits
- B The parasite benefits, the host is harmed
- C Both host and parasite benefit
- D The parasite benefits, the host is unaffected

1.1.5 The following statements about HIV are NOT true:

- (i) It can be passed to a child from its mother during pregnancy or at birth
 - (ii) It can be passed to a child from its mother during breastfeeding
 - (iii) It can be passed to a child from its mother during sexual intercourse
 - (iv) The only transmission of HIV infection is the same as that of other diseases
- A (i) and (ii)
B (ii) and (iv)
C (i) only
D (iii) and (iv)

[5x2=10]

1.2 Give the correct BIOLOGICAL TERM for each of the following descriptions. Write only the correct TERM next to the QUESTION NUMBER (1.2.1-1.2.4) on your answer sheet.

1.2.1 A bacterium which kills the human heart and liver.

1.2.2 A plant which has a taproot and a fibrous root.

1.2.3 The production of a new cell from a single parent cell.

1.2.4 Using living organisms to control harmful populations.

(4)

1.3 Indicate whether each of the statements in COLUMN I applies to **A ONLY**, **B ONLY**, **BOTH A and B** or **NONE** of the items in COLUMN II. Write **A ONLY**, **B ONLY**, **BOTH A and B** or **NONE** next to the QUESTION NUMBER (1.3.1-1.3.3).

Column I	Column II
1.3.1 Presence of a slime capsule and well-structured nucleus	<i>Penicillium</i>
1.3.2 A disease caused by fungi	<i>Aspergillus</i>
1.3.3 Binary fission is the asexual production of...	<i>Paramecium</i>

[3x2=6]

SECTION A: [20]

Life Sciences Grade 11 Paper 14 March 2014

Thomas Li-Ping Tang



Life Sciences Grade 11 Paper 14 March 2014:

Metabolic Syndrome and Complications of Pregnancy Enrico Ferrazzi, Barry Sears, 2015-06-24 This book explores the nature of pregnancy and metabolic syndrome as proinflammatory conditions and explains how pregnancy provides a window of opportunity for preventing the lifelong complications of metabolic syndrome during which key risk factors can be identified and beneficial dietary changes can be implemented The book's opening sections discuss inflammation in the context of pregnancy including the nature of the placenta as a proinflammatory tissue In the main body it points to new possible connections to truncal obesity inflammation metabolic syndrome and major obstetrical syndromes including preeclampsia gestational diabetes and pre term delivery Based on the insights offered by this analysis the remainder of the book focuses on a variety of nutritional measures and diets that can be of benefit during and beyond pregnancy Readers will learn how the higher level of compliance with medical instructions during pregnancy can be capitalized on to ensure enduring health benefits for mother and child alike

What Makes a World-Class School and How We Can Get There James H. Stronge, Xianxuan Xu, 2017-06-15 For years students in the United States have lagged behind students in many other countries on such measures of achievement as the PISA and TIMSS assessments In an increasingly globalized world such a gap is worrisome Armed with statistics examples and cautionary tales from Scandinavia to Japan James H Stronge and Xianxuan Xu have written a book that can help educators better prepare students and close that gap In What Makes a World Class School and How We Can Get There you will find Careful analysis of recent international assessment results what they mean and what can be done to improve them In depth profiles of high achieving education systems around the globe their histories their lessons learned and what they can teach educators and policymakers in the United States Strategies for aligning successful educational approaches from international systems to U S schools which strategies to use in which subjects and with which students Transformative ideas for cultivating a truly world class system of schooling both simple and complex ways to raise the bar for all students no matter what their background Educators in every country must ensure that their students are as prepared as possible to lead a future generation of citizens This thought provoking and copiously researched book provides educators with a blueprint for radical improvement based on the hard learned experiences of their peers around the world

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 ICIE 2014 Proceedings of the 2nd International Conference on Innovation and Entrepreneurship Academic Conferences and Publishing Limited, 2014-06-02

Class Cultures and Social Mobility Paul Dean, 2025-11-11 Class Cultures and Social Mobility tells the stories of people who grew up working class became the first members of their family to graduate from college and undertook professional work that serves working class people Drawing upon personal narratives to appeal to both academics and first gen students themselves this book charts the class journeys of people across a wide range of occupational fields Their stories illustrate how members of the professional workforce draw upon their working class roots to construct meaningful careers aimed at building stability mobility and fulfillment for the next generation of working class people While their working class origins presented significant barriers along their career trajectories they also found ways to leverage their roots in their professional work Through their stories the author reveals the power of working class cultural capital how their unique knowledge skillsets and dispositions enabled them to leverage their humble beginnings as a strength for both themselves and their

communities Interest in Mathematics and Science Learning Ann Renninger, Martina Nieswandt, Suzanne Hidi, 2015-04-19
 Interest in Mathematics and Science Learning edited by K Ann Renninger Martin Nieswandt and Suzanne Hidi is the first volume to assemble findings on the role of interest in mathematics and science learning As the contributors illuminate across the volume s 22 chapters interest provides a critical bridge between cognition and affect in learning and development This volume will be useful to educators researchers and policy makers especially those whose focus is mathematics science and technology education **Young Adult Literature, Fourth Edition** Michael Cart, 2022-05-09 Editorial Advisory Board Sarah Park Dahlen Associate Professor School of Information Sciences University of Illinois Urbana Champaign Marianne Martens Associate Professor School of Information Kent State University Amy Pattee Associate Professor and Co coordinator of Dual Degree MS LIS MA Children s Literature School of Library and Information Science Children s Literature Simmons University Comprehensive and substantial a highly recommended resource raved VOYA about the third edition Now to keep pace with changes in the field of publishing and realign itself to the newest generation of young adults Cart returns with a sweeping update of his classic text Relied upon by educators LIS instructors and students and practitioners for its insight and thoroughness his book surveys the landscape of YA lit both past and present sketching out its origins and showing how it has evolved to deal with subjects every bit as complex as its audience closely examines teen demographics literacy audiobooks the future of print the role of literary criticism and other key topics provides updated coverage of perennially popular genre fiction including horror sci fi and dystopian fiction delves deeply into multicultural and LGBTQIA literature substantially updated in this edition features expansive interviews with best selling authors like Eric Shanower Jackie Woodson and Bill Konigsberg as well as several publishers and leaders in the field discusses the impact of the Printz Award ALAN s Walden Award the National Book Award The Los Angeles Times Book Award and other honors and features abundant bibliographic material to aid in readers advisory and collection development Sustaining Human Progress Khalid Malik, 2014 Most people in most countries have been steadily better in human development Advances in technology and incomes hold ever greater for longer healthier more secure lives Health Informatics - E-Book Ramona Nelson, Nancy Staggars, 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 Staggars 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

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 **Mining and Scientific Press**, 1881 Restoring Opportunity Greg J. Duncan, Richard J. Murnane, 2014-01-01 In this landmark volume Greg J. Duncan and Richard J. Murnane lay out a meticulously researched case showing how in a time of spiraling inequality strategically targeted interventions and supports can help schools significantly improve the life chances of low income children The authors offer a brilliant synthesis of recent research on inequality and its effects on families children and

schools They describe the interplay of social and economic factors that has made it increasingly hard for schools to counteract the effects of inequality and that has created a widening wedge between low and high income students Restoring Opportunity provides detailed portraits of proven initiatives that are transforming the lives of low income children from prekindergarten through high school All of these programs are research tested and have demonstrated sustained effectiveness over time and at significant scale Together they offer a powerful vision of what good instruction in effective schools can look like The authors conclude by outlining the elements of a new agenda for education reform Restoring Opportunity is a crowning contribution from these two leading economists in the field of education and a passionate call to action on behalf of the young people on whom our nation s future depends Copublished with the Russell Sage Foundation

Libraries and Google William Miller,Rita M. Pellen,2014-04-23 Discover the benefitsand drawbacksof Google Google has become a nearly omnipresent tool of the Internet with its potential only now beginning to be realized How can librarians effectively integrate this powerful search engine to provide service to their patrons Libraries and Google presents leading authorities discussing the many possibilities of using Google products as effective user friendly tools in libraries Google Scholar and Print are extensively explored with an eye toward offering an expanded view of what is and may be possible for the future with practical insights on how to make the most of the product s capabilities It seems certain that Google is here to stay Libraries and Google comprehensively examines this disruptive technology that is seen as both a threat and an opportunity by both librarians and publishers Both perspectives are explored in depth along with practical applications of this and other Google technology that may be new to librarians Google products and other more familiar research tools are compared for effectiveness and ease of use The various unique needs of users and scholars are detailed and considered as a springboard for insightful discussion of the future role of librarians in today s world Potential problems are closely examined such as copyright issues of digitization and privacy concerns sparked by its collection of personal information about its users The book comprehensively explores the path libraries need to travel to benefit from the search tool rather than being overwhelmed and destroyed by it Topics in Libraries and Google include the viewpoint that Google may make libraries obsolete new opportunities for libraries through using Google products technical aspects of purchasing and implementing Google search products with proprietary vendor databases testing the performance of Google Scholar and Print practical use of Google s products personal privacy issues making digitized library resources more accessible digitization of copyrighted materials much much more Libraries and Google is horizon expanding reading for all librarians library science educators and students library administrators publishers and university presses Volume 2 of Libraries and Google is in preparation Google is a Registered Service Mark of Google Inc Mountain View California Libraries and Google is an independent publication offered by The Haworth Press Inc Binghamton New York and is not affiliated with nor has it been authorized sponsored endorsed licensed or otherwise approved by Google Inc

Superminds Thomas W. Malone,2018-05-15 From the founding

director of the MIT Center for Collective Intelligence comes a fascinating look at the remarkable capacity for intelligence exhibited by groups of people and computers working together If you re like most people you probably believe that humans are the most intelligent animals on our planet But there s another kind of entity that can be far smarter groups of people In this groundbreaking book Thomas Malone the founding director of the MIT Center for Collective Intelligence shows how groups of people working together in superminds like hierarchies markets democracies and communities have been responsible for almost all human achievements in business government science and beyond And these collectively intelligent human groups are about to get much smarter Using dozens of striking examples and case studies Malone shows how computers can help create more intelligent superminds simply by connecting humans to one another in a variety of rich new ways And although it will probably happen more gradually than many people expect artificially intelligent computers will amplify the power of these superminds by doing increasingly complex kinds of thinking Together these changes will have far reaching implications for everything from the way we buy groceries and plan business strategies to how we respond to climate change and even for democracy itself By understanding how these collectively intelligent groups work we can learn how to harness their genius to achieve our human goals Drawing on cutting edge science and insights from a remarkable range of disciplines Superminds articulates a bold and utterly fascinating picture of the future that will change the ways you work and live both with other people and with computers

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

Monetary Wisdom

Thomas Li-Ping Tang, 2024-05-16 Money is the instrument of commerce and a measure of value Globalization has created economic prosperity for citizens around the world These challenges have changed how people work live and do business Monetary Wisdom Monetary Aspirations and Decision Making presents an excellent collection of innovative and a multi cultural view of how money has affected decision making not only at an individual level but at organizational level This book discusses the powerful motivators of money and the connection to ethical decision making both in organizations and social life Inspires readers to learn one of the world s most often used money attitude measures Notices that in modern societies

money is power at the individual level Suggests that monetary aspirations not money itself predict cheating Profiles that reducing stress curbs dishonesty directly and indirectly Illustrates that leaders promote employees honesty and creativity Reveals how corruption expands prospect theory to a global level Explores the contexts to achieve balanced aspirations and serenity Corals and Reefs Bertrand Martin-Garin, Lucien F. Montaggioni, 2023-02-24 The health status and future of tropical coral reefs as tourist destinations are regularly subjected to media coverage Many documentaries recognize the natural beauty and biological richness of the Australian Great Barrier Reef and French Polynesian lagoons but point to the equally significant risk that would result from current global warming and human made hazards The future of coral reefs is usually a matter of death foretold real or purely imaginary In this context it has become necessary to differentiate between what is falling within reality of scientific facts or fantasy To this end the present general review in the expert translation of Charlotte Fontan aims at 1 defining the conditions and life requirements of reefbuilding corals 2 the history of corals along with that of a number of associated skeletal organisms involved in reef building since the very beginning i e the last 540 million years including the ups and downs they have experienced 3 giving special reference to the development patterns of recent and modern reefs 4 projecting corals and reefs into a still unknown future Understanding how corals and reefs have originated how they have been able to face the major biological crises which have punctuated the Earth s history how they have survived is a prerequisite to better gain a significant picture of their future Safety and Reliability of Complex Engineered Systems Luca Podofillini, Bruno Sudret, Bozidar Stojadinovic, Enrico Zio, Wolfgang Kröger, 2015-09-03 Safety and Reliability of Complex Engineered Systems contains the Proceedings of the 25th European Safety and Reliability Conference ESREL 2015 held 7 10 September 2015 in Zurich Switzerland Including 570 papers on theories and methods in the area of risk safety and reliability and their applications to a wide range of industrial civil and social sectors this book will be of interest to academics and professionals involved or interested in aspect of risk safety and reliability in various engineering areas *The SAGE Handbook of Curriculum, Pedagogy and Assessment* Dominic Wyse, Louise Hayward, Jessica Pandya, 2015-12-03 The research and debates surrounding curriculum pedagogy and assessment are ever growing and are of constant importance around the globe With two volumes containing chapters from highly respected researchers whose work has been critical to understanding and building expertise in the field The SAGE Handbook of Curriculum Pedagogy and Assessment focuses on examining how curriculum is treated and developed and its impact on pedagogy and assessment worldwide The Handbook is organised into five thematic sections considering The epistemology and methodology of curriculum Curriculum and pedagogy Curriculum subjects Areas of the curriculum Assessment and the curriculum The curriculum and educational policy The SAGE Handbook of Curriculum Pedagogy and Assessment s breadth and rigour will make it essential reading for researchers and postgraduate students around the world

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