Life Science

Grade 12

PAPER 1



Oute: SEPTEMBER 2024

Time: 2 % HOURS

Mark: 550

#### INSTRUCTIONS AND INFORMATION

Read the following instruction carefully before answering the questions.

- Answer ALL questions.
- Write ALL the answers on the provided FOLIO PAPER.
- RIOLE OFF after each question.
- 4 Start each section on a NEW page.
- Number the answers correctly according to the numbering system used in this question paper.
- Present your answers according to the instructions for each question.
- Do ALL drawings in pencil and label them in blue pen-
- Draw slagrams or flow charts only when asked to do so.
- The diagrams in this question paper are NOT all drawn to scale.
- 10 You may use a non-programmable calculator, protractor, and compans.
- 111 You may NOT use graph paper.
- 12. Write neatly and legibly.

EXAM AGREEMENT	
 (Name & Sumane); Grade	

hereby acknowledge that I will abide by all examination rules objudited below during the writing of my LIFE. SCIENCE evans.

#### RULES:

- I will not have any electronic equipment in my possession (cell phones, smart watches and earphones).
- 2. I will not cause any disruption during this exam in the exam venue.
- 3. I will be honest at all times.

All rules, as discussed with me, will be honoured and obeyed.

Learner Signature

# SECTION A Question 1

- Various options are provided as possible answers to the following questions. Choose the correct answer and write only the letter (A to D) next to the question number ( 1,1.1 to 1.1.10) on the FOLIO PAPER, for example 1.1.6 E.
- 1.1.1 Hollow, pear-shaped organ.
  - Vagina.
  - Uherus.
  - Fallopian tubes
  - Placents.
- 1.1.2 Choose the letter that does not explain the process of oogenesis.
  - The diploid germinal epithelium cells of the ovaries go through the process of mitosis. to form many folicies.
  - Every 21 days, the folicle stimulating hormone (FSH) stimulates one folicle. Only one cell inside of that folicie enlarges and goes through the process of meiosis.
  - Out of the 4 haploid cells produced through melosis, only one cell will survive to form a mature ovum.
  - The other three cells from meiosis will degenerate.
- 1.1.3 Before copulation the male sperm is stored temporarily in the ...
  - seminal vesicles.
  - sorotum.
  - prostate pland
  - epididymis.
- 1.1.4 Structure that receives a stimulus and converts it into an impulse.
  - autonomic nervous system.
  - effector
  - stimulus.
  - receptor

REPORT.

# **Grade 1june 2013 Life Sciences Memorandum**

Susan E. Little

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Women in Wildlife Science Carol L. Chambers, Kerry L. Nicholson, 2022-11 This practical guide an edited volume discusses the important topic of fostering diversity in wildlife conservation and management The Complete Book of Colleges, 2018 Edition Princeton Review, 2017-07 Includes information on admissions cost financial aid required and recommended admissions criteria cost breakdowns and types of financial aid for 1 355 colleges and universities

Assessing Contexts of Learning Susanne Kuger, Eckhard Klieme, Nina Jude, David Kaplan, 2016-12-05 This volume brings together educational effectiveness research and international large scale assessments demonstrating how the two fields can be applied to inspire and improve each other and providing readers direct links to instruments that cover a broad range of topics and have been shown to work in more than 70 countries. The book s initial chapters introduce and summarize recent discussions and developments in the conceptualization implementation and evaluation of international large scale context assessments and provide an outlook on possible future developments Subsequently three thematic sections Student Background Outcomes of Education Beyond Achievement and Learning in Schools each present a series of chapters that provide the conceptual background for a wide range of important topics in education research policy and practice Each chapter defines a conceptual framework that relates recent findings in the educational effectiveness research literature to current issues in education policy and practice These frameworks were used to develop interesting and relevant indicators that may be used for meaningful reporting from international assessments other cross cultural research or national studies Using the example of one particular survey the Programme for International Student Assessment PISA 2015 this volume links all theoretical considerations to fully developed questionnaire material that was field trailed and evaluated in questionnaires for students and their parents as well as teachers and principals in their schools. The primary purposes of this book are to inform readers about how education effectiveness research and international large scale assessments are already interacting to inform research and policymaking to identify areas where a closer collaboration of both fields or input from other areas

could further improve this work to provide sound theoretical frameworks for future work in both fields and finally to relate these theoretical debates to currently available and evaluated material for future context assessments Consultations in Feline Internal Medicine, Volume 7 Susan E. Little, 2015-12-14 Stay current with cutting edge information from the leading feline experts August's Consultations in Feline Internal Medicine Volume 7 takes the popular Current Therapy approach to the latest issues advances and therapies in feline care The 103 new chapters are organized by body systems making information easy to access and include more than 800 new detailed photographs diagrams and MRI and ultrasound images Discussions of scientific findings always emphasize clinical relevance and practical application This edition addresses new topics ranging from feline obesity and food allergies to respiratory mycoplasmal infections From feline expert Susan Little with chapters written by more than 130 international specialists this practical resource will be an invaluable addition to every small animal clinician s library The Current Therapy format focuses on the latest advances in feline care and includes broad traditional and controversial subjects of real clinical importance Clinically relevant approach is supported with scientific research and promotes practical progressive clinical management More than 130 world renowned contributors provide expert insight across the full spectrum of feline internal medicine Extensive references make it easy to find additional information about specific topics most important to your practice 103 ALL NEW chapters reflect the latest findings reports and evidence based coverage of pressing topics such as Managing respiratory mycoplasmal infections Continuous glucose monitoring in cats with diabetes Feline food allergy Stem cell therapy for chronic kidney disease Feline idiopathic cystitis Electrochemotherapy Current concepts in preventing and managing obesity Recognition and treatment of hypertensive crises Feline social behavior and personality NEW Emergency and Critical Care Medicine section contains 13 chapters covering complicated and serious internal medical problems NEW More than 800 colorful new images clarify concepts and demonstrate clinical examples Abstraction and Representation Peter Damerow, 2013-06-29 The author of this book is affiliated with the Center for Development and Socialization of the Max Planck Institute for Human Development and Ed ucation in Berlin and heads its program on culture and cognition which de votes its labors to the reconstruction of scientific concepts through history in a perspective of what might be called historical epistemology. He is also a member of a related research group in the newly founded Max Planck Institute for the History of Science in Berlin Perhaps this double affiliation throws some light on the scope of Damerow's scientific interests In any event it will explain why representatives of both these institutions join in an effort to introduce Peter Damerow s writings to an English speaking audi ence Damerow s scholarship ranges across widely different areas including philosophy and history of science psychology and education Among his fields of expertise are the emergence of writing early Babylonian mathe matics the history of arithmetic the relationship between pure and applied mathematics the theory and methods of mathematics instruction the tran sition from preclassical to classical mechanics and the history and theory of relativity Current Law Index .1996 Freedom to

Harm Thomas O. McGarity,2013-03-19 DIV How much economic freedom is a good thing This book tells the story of how the business community and the trade associations and think tanks that it created launched three powerful assaults during the last quarter of the twentieth century on the federal regulatory system and the state civil justice system to accomplish a revival of the laissez faire political economy that dominated Gilded Age America Although the consequences of these assaults became painfully apparent in a confluence of crises during the early twenty first century the patch and repair fixes that Congress and the Obama administration put into place did little to change the underlying laissez faire ideology and practice that continues to dominate the American political economy In anticipation of the next confluence of crises Thomas McGarity offers suggestions for more comprehensive governmental protections for consumers workers and the environment div

Smoke Signals Martin A. Lee, 2013-08-13 In this book the author an investigative journalist traces the social history of marijuana from its origins to its emergence in the 1960s as a defining force in an ongoing culture war He describes how the illicit marijuana subculture overcame government opposition and morphed into a multibillion dollar industry In 1996 Californians voted to legalize marijuana for medicinal purposes Similar laws have followed in several other states but not without antagonistic responses from federal state and local law enforcement The author draws attention to underreported scientific breakthroughs that are reshaping the therapeutic landscape medical researchers have developed promising treatments for cancer heart disease Alzheimer's diabetes chronic pain and many other conditions that are beyond the reach of conventional cures. This book is an examination of the medical recreational scientific and economic dimensions of the world s most controversial plant Oceanographical Engineering Robert L. Wiegel, 2013-09-03 As is the case with many modern fields of study oceanographical engineering cuts across the boundaries of several disciplines Like other scientific endeavors it aims to understand the nature of the ocean and to make use of this understanding for the benefit of humanity through better ports safer and more economical operations at sea and greater use of the oceans natural resources food raw materials and recreation This graduate level text requires a knowledge of fluid mechanics a background in the motions of sediments in fluids is advisable as is a concurrent course in structural dynamics Topics include the theory of periodic waves tsunamis storm surges and harbor oscillations the effect of structures on waves waves in shoaling water tides and sea level changes currents shores and shore processes some characteristics of the oceans waters moorings and other related subjects Certain portions of the book pertaining to the distribution of temperatures and salinities in the ocean are largely descriptive other portions such as the sections on waves are mathematical Numerous drawings and photographs supplement the text

<u>Critical Perspectives on International Education</u> Yvonne Hébert, Ali A. Abdi, 2013-02-11 In rapidly globalizing spaces of life any research project on international education would necessarily have multi directional emphases with the quality of observations and analyses reflecting the expanding political economic and cultural intersections which characterize this potentially promising century To respond to these emerging learning and living contexts of our world this book brings

together some of the most active and established scholars in the field As such the book represents important epistemic interventions that analyze and critique the institutional socio economic linguistic and pedagogical platforms of international education As the locus of international education cannot be detached from the pragmatics of social development the specific recommendations embedded in this book expand the debates and broaden the boundaries of learning projects that should enhance the lives of people especially those who are continually marginalized by the regimes of globalization Thus the book actively advocates for possibilities of human well beings via different formats of education in diverse locations of life Critical Perspectives on International Education offers a historically comprehensive intellectually honest and perspective rich scholarly exploration of a new education globalization dynamic This book courageously offers up diverse voices gathered into a robust and useful conversation regarding global education This book adds greatly to understanding why educational marketplaces must be driven by principles and practices that empower diverse peoples to secure sustainable knowledge benefits that contribute to personal local national and international well being This critical perspective reader will engage scholars researchers and citizens Jim Paul University of Calgary In the current intensifications of globalization and its resulting inequalities it is crucial to better understand the role of knowledge creation and knowledge dissemination Should knowledge be only a commodity to be sold in the market and a tool to increase economic capital or should it be a shared sociocultural capital aimed at improving democracy and the common good In Critical Perspectives on International Education Yvonne H bert and Ali A Abdi assemble an impressive array of contributions from all over the world that address this question from a variety of critical perspectives and case studies I recommend this book to everyone interested in the connections between education citizenship development and human well being Daniel Schugurensky Arizona State University

Psychology in Everyday Life David G. Myers,2014-01-20 David Myers briefest introduction to psychology speaks to all students regardless of their background or level of preparedness with no assumptions made in the vocabulary examples or presentation Students of all kinds are comfortable with Myers manageable chapters which include careful connections to associated visuals comparative tables and research based pedagogy For this edition there is something completely new to a Myers text David Myers personally selected new coauthor Nathan DeWall's enthusiasm for teaching and writing about psychological science makes him uniquely suited to join the worlds bestselling psychology textbook author And with about 30 more pages of coverage this edition has become an even stronger and more complete introduction to the science of psychology for courses of all kinds Colorado School Laws Colorado,2013 Metflix 8 HBO HubSpot 90 Andrew McAfee Author Index to Psychological Index, 1894 to 1935, 1960

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