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.
- a. 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.

# **Memorandum Life Sciences Paper 1 September 2014**

Joan C. Williams

#### Memorandum Life Sciences Paper 1 September 2014:

*Nimble* Baba Prasad, 2015-04-24 The world today can be best described by one word turbulence As change rages all around how can you as an individual or as an organization take advantage of unexpected opportunities and succeed in difficult circumstances In a book that challenges traditional notions of strategy Baba Prasad draws on his research at some of the world's best business schools to show how intelligence can help you and your business navigate this maelstrom. The Intelligences Framework presented in Nimble goes beyond the common management concept of agility it presents an immensely practical and hands on approach for companies and individuals to develop five kinds of intelligences and apply them in different settings for maximum benefit Bridging strategy leadership and innovation and with vivid illustrations Nimble provides a path breaking assessment methodology and a systematic four step approach that every company and individual can use to lead amid turbulence Life of Permafrost Pey-Yi Chu, 2021-01-04 By tracing the English word permafrost back to its Russian roots this unique intellectual history uncovers the multiple contested meanings of permafrost Shared Governance for Sustainable Working Landscapes Timothy M. as a scientific idea and environmental phenomenon Gieseke, 2016-08-05 Sustaining our agricultural landscapes is no longer just a technical scientific or even political problem but it has evolved into a socially complex so called wicked problem of conflicting social governance and economics This creates an extreme economic obstacle where the value of ecosystem services remains low and diffuse and the transactions costs remain high and multiple Using Uber like business platform technology and a shared governance model a symbiotic demand for environmental benefits is created Enabling multi sector transactions for environmental benefits this platform innovation would remedy the tragedy of the commons the economic nemesis to achieving landscape sustainability In a nutshell to sustain our agricultural landscapes a transdisciplinary approach supported by a shared governance model housed within a multi-sided platform in needed This book introduces an assessment framework identifying governance actors styles and ratios for socio ecological systems. The assessment uses a new governance compass to identify the types of actors completing which tasks and identifies the styles of governance used to complete the tasks It is aimed to anyone involved in Outclassed Joan C. Williams, 2025-05-20 sustainability science agricultural policy planning or integrated landscape design An eye opening urgent call to mend the broken relationship between college and non college grads of all races that is driving politics to the far right in the US Is there a single change that could simultaneously protect democracy spur progress on climate change enact sane gun policies and improve our response to the next pandemic Yes changing the class dynamics driving American politics The far right manipulates class anger to undercut progressive goals and liberals often inadvertently play into their hands In Outclassed Joan C Williams explains how to reverse that process by bridging the diploma divide while maintaining core progressive values She offers college educated Americans insights into how their values reflect their lives and their lives reflect their privilege With illuminating stories from the Portuguese admiral who led that country's COVID

response to the lawyer who led the ACLU s gay marriage response and more Williams demonstrates how working class values reflect working class lives Then she explains how the far right connects culturally with the working class deftly manipulating racism and masculine anxieties to deflect attention from the ways far right policies produce the economic conditions disadvantaging the working class Whether you are a concerned citizen committed to saving democracy or a politician or social justice warrior in need of messaging advice Outclassed offers concrete guidance on how liberals can forge a multi racial cross class coalition capable of delivering on progressive goals POVERTY, LIVELIHOOD AND **ENVIRONMENTAL ISSUES** Ashok Kundu, Amit Kumar Bhandari, Aparajita Dhara, 2017-08-01 The linkage between poverty livelihood and the environment is always multifaceted and often complex The degradation of the environment has been plunging millions of people into poverty The last century witnessed rapid progress in the application of science and technology which resulted in improvement in livelihood reduction in poverty enhanced life expectancy and huge growth in consumption which in turn created pressure on the environment Thus the planet's capacity to sustain is eroding with degrading agricultural land shrinking forests diminishing supply of clean water and other related issues Apart from food and water clean and affordable access to energy is one key issue to a decent livelihood. The tradeoffs that policymakers are facing nowadays are rapid reduction in poverty and improving livelihood without harming the environment These draw our focus to address environmental issues that matter to the livelihood of the poor which are critical for poverty reduction Strengthening the link between poverty livelihood and the environment can promote sustainable development outcomes The book is a collection of articles on comprehensive research case studies empirical and theoretical papers on these issues The chapters of the book attempted to analyze the links and identify approaches that can promote positive outcomes The contributors here tried to highlight a number of key challenges that need to be addressed in the process of policy formulation and government investment programmes It may serve as an important resource for academics researchers professionals students and policy makers Bridging the Theory-Practice Divide in International Relations Daniel Maliniak, Susan Peterson, Ryan Powers, Michael J. Tierney, 2020-05-01 There is a widening divide between the data tools and knowledge that international relations scholars produce and what policy practitioners find relevant for their work In this first of its kind conversation leading academics and practitioners reflect on the nature and size of the theory practice divide They find the gap varies by issue area and over time The essays in this volume use data gathered by the Teaching Research and International Policy TRIP Project over a fifteen year period As a whole the volume analyzes the structural factors that affect the academy s ability to influence policy across issue areas and the professional incentives that affect scholars willingness to attempt to do so Individual chapters explore these questions in the areas of trade finance human rights development environment nuclear weapons and strategy interstate war and intrastate conflict Each substantive chapter is followed by a response from a policy practitioner providing their perspective on the gap and the possibility for academic work to have an impact Bridging the

Theory Practice Divide in International Relations provides concrete answers and guidance about how and when scholarship can be policy relevant Principles of Clinical Medicine for Space Flight Michael R. Barratt, Ellen S. Baker, Sam L. Pool, 2020-01-02 In its first edition Principles of Clinical Medicine for Space Flight established itself as the authoritative reference on the contemporary knowledge base of space medicine and standards of care for space flyers It received excellent notices and is used in the curricula of civilian and military training programs and used as a source of questions for the Aerospace Medicine Certifying Examination under the American Board of Preventive Medicine In the intervening few years the continuous manning of the International Space Station has both strengthened existing knowledge and uncovered new and significant phenomena related to the human in space The Second Edition incorporates this information Gaps in the first edition will be addressed with the addition new and revised chapters This edition is extensively peer reviewed and represents the most up to date knowledge **Educating for Professional Life** Elaine Penn, 2017-09-26 The story of the University of Westminster is the fifth volume in a series of titles exploring the University's long and diverse history This book celebrates the twenty fifth anniversary of the institution gaining university status the right to award its own degrees and to participate in publicly funded research Drawing on extensive research conducted in the University of Westminster Archive this volume investigates the evolution from Polytechnic to University within the broader context of the transformation of UK higher Human Behavior and the Social Environment, Micro education in the late twentieth and early twenty first centuries Level Katherine Van Wormer, 2017 Unique to Human Behavior and the Social Environment Micro Level is the focus on trauma and resilience in its exploration of human behavior across the life span Illustrations are drawn from the arts as well as recent brain research from recent biological research **Digital Cash** Finn Brunton, 2019-06-25 The fascinating untold story of digital cash and its creators from experiments in the 1970s to the mania over Bitcoin and other cryptocurrencies Bitcoin may appear to be a revolutionary form of digital cash without precedent or prehistory. In fact it is only the best known recent experiment in a long line of similar efforts going back to the 1970s But the story behind cryptocurrencies like Bitcoin and its blockchain technology has largely been untold until now In Digital Cash Finn Brunton reveals how technological utopians and political radicals created experimental money to bring about their visions of the future protecting privacy or bringing down governments preparing for apocalypse or launching a civilization of innovation and abundance that would make its creators immortal The incredible story of the pioneers of cryptocurrency takes us from autonomous zones on the high seas to the world's most valuable dump from bank runs to idea coupons from time travelers in a San Francisco bar to the pattern securing every twenty dollar bill and from marketplaces for dangerous secrets to a tank of frozen heads awaiting revival in the far future Along the way Digital Cash explores the hard questions and challenges that these innovators faced How do we learn to trust and use different kinds of money What makes digital objects valuable How does currency prove itself as real to us What would it take to make a digital equivalent to cash something that could be created but not forged

exchanged but not copied and which reveals nothing about its users Filled with marvelous characters stories and ideas Digital Cash is an engaging and accessible account of the strange origins and remarkable technologies behind today s The Continuing Imperialism of Free Trade Jo Grady, Chris Grocott, 2018-10-08 In 1953 John cryptocurrency explosion Gallagher and Ronald Robinson shook the foundations of imperial history with their essay The Imperialism of Free Trade They reshaped how historians saw the British empire focusing not on the red bits on the map and the wishes of policy makers in London but rather on British economic and political influence globally Expanding on this analysis this volume provides an examination of imperialism which brings the reader right up to the present This book offers an innovative assessment and analysis of the history and contemporary status of imperial control It does so in four parts examining the historical emergence and traditions of imperialism the relationships between the periphery and the metropolitan the role of supranational agencies in the extension of imperial control and how these connect to financialisation and international political economy. The book provides a dynamic and unique perspective on imperialism by bringing together a range of contributors both established and up and coming scholars activists and those from industry from a wide range of disciplines and backgrounds In providing these authors a space to apply their insights this engaging volume sheds light on the practical implications of imperialism for the contemporary world With a broad chronological and geographical sweep this book provides theoretical and empirical engagements with the nature of imperialism and its effects upon societies It will be of great interest to a broad range of disciplines across the humanities and social sciences especially those working in History Politics and Management and Organisation Studies Psychosocial Studies of the Individual's Changing Perspectives in Alzheimer's Disease Dick-Muehlke, Cordula, Li, Ruobing, Orleans, Myron, 2015-08-31 Cognitive impairment through Alzheimer s disease or other related forms of dementia is a serious concern for afflicted individuals and their caregivers Understanding patients mental state and combatting social stigmas are important considerations in caring for cognitively impaired individuals Psychosocial Studies of the Individual s Changing Perspectives in Alzheimer s Disease describes programs and strategies that professional and family caregivers can implement to engage and improve the quality of life of persons suffering from cognitive impairment Including real world cases by international experts and a personal approach to the subject this book is an important resource for caregivers researchers and families living with dementia Land **Abandoned to the Sea** Stuart Oliver, 2021-04-08 Significant changes are affecting coastlines around the world due to economic pressures and climate change This book addresses the social cultural and political context of the process of managed coastal realignment the strategic abandonment of the coast as a means of coping with these changes With a specific focus on the Blackwater Estuary in Essex Stuart Oliver analyses the cultural and social implications of managed retreat and proposes managed realignment as a practical way in which society can rethink itself addressing the new realities of the environment and a move towards developing a more sustainable relationship with it Fresh Kills Martin V.

Melosi, 2020-01-28 Fresh Kills a monumental 2 200 acre site on Staten Island was once the world s largest landfill From 1948 to 2001 it was the main receptacle for New York City's refuse After the 9 11 attacks it reopened briefly to receive human remains and rubble from the destroyed Twin Towers turning a notorious disposal site into a cemetery Today a mammoth reclamation project is transforming the landfill site constructing an expansive park three times the size of Central Park Martin V Melosi provides a comprehensive chronicle of Fresh Kills that offers new insights into the growth and development of New York City and the relationship among consumption waste and disposal He traces the metamorphoses of the landscape following it from salt marsh to landfill to cemetery and looks ahead to the future park By centering the problem of solid waste disposal Melosi highlights the unwanted consequences of mass consumption He presents the Fresh Kills space as an embodiment of massive waste linking consumption to the continuing presence of its discards Melosi also uses the landfill as a lens for understanding Staten Island's history and its relationship with greater New York City The first book on the history of the iconic landfill Fresh Kills unites environmental political and cultural history to offer a reflection on material culture consumer practices and perceptions of value and worthlessness AN INVENTED LIFE The Smoking Gun Alan Amron, 2021-12-24 An autobiographical novel about the Post it sticky notes for 3M the battery operated water guns for Larami LJN Entertech Buddy L Coleco Tyco Cap toys and Blue Box toys the Photo Wallet for Kodak then Nikon Camera inventor Alan Amron s life based on true events Muhammad Ali Frank Sinatra Dick Clark Kristy McNichol Pat Summerall and the Author of the famous book The Catcher in the Rye J D Salinger have all met or partnered with Alan Amron in this INVENTED LIFE The Smoking Gun An Invented Life shares the story of Alan Amron a visionary inventor Even as a child Alan found it fascinating to create new things always exploring and trying to understand how everything worked In the book Alan tells his story and shares snippets from his childhood and youth in Brooklyn how he always looked at things differently with deeper insight This is his journey Alan started his creating and inventing journey at a young age Many of his inventions were patented and he significantly profited from them as well Battery powered water guns temperature alarms the digital photo wallet etc were among his many creations yet his most famous and controversial invention was the Post it sticky notes Even though he is the inventor of the Post it sticky notes he was ripped off of his invention due to an unfortunate set of events But accepting defeat is not in his nature so he kept fighting and finally after a lengthy legal battle he got the rightful claim of his creation But An Invented Life is not all about inventing Alan tells us about his successes and how he made his way into Hollywood getting the chance to meet many legends Loss was part of his journey though and he shares various accounts of it because this is also a story of tenacity and determination Alan had always been a freethinking person and the preconceived perceptions of some people never constrained him or his imagination The book shows how he became a successful inventor an entrepreneur and a businessman He met many difficulties along the way but he never gave up and his determination changed his life Alan gives examples of how some minor mistakes and oversights can significantly impact a person s life By

sharing his story with the world he wants the readers to be mindful of their decisions always considering the possible future impact of their actions An Invented Life is a ride filled with twists and exciting turns of events depicting both happy and low moments It provides textbook examples of what not to do and what to do in life This compelling story provides some great teaching moments for those determined to change their lives for the better **The National Tertiary Education Union** John Michael O'Brien, 2015-10-01 With a unique insider s perspective John O Brien explores two decades of political activism by the NTEU from its successes in navigating enterprise bargaining and vital role during the Rights to Work campaign to its work on behalf of Aboriginal and Torres Straight Islanders women LBGTI members and casual workers during a time of constant change within the education sector 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 Handbook of Systems Engineering and Risk Management in Control Systems, Communication, Space Technology, Missile, Security and Defense Operations Anna M. Doro-on, 2022-09-27 This book provides multifaceted components and full practical perspectives of systems engineering and risk management in security and defense operations with a focus on infrastructure and manpower control systems missile design space technology satellites intercontinental ballistic missiles and space security While there are many existing selections of systems engineering and risk management textbooks there is no existing work that connects systems engineering and risk management concepts to solidify its usability in the entire security and defense actions With this book Dr Anna M Doro on rectifies the current imbalance She provides a comprehensive overview of systems engineering and risk management before moving to deeper practical engineering principles integrated with newly developed concepts and examples based on industry and government methodologies The chapters also cover related points including design principles for defeating and deactivating improvised explosive devices and land mines and security measures against kinds of threats The book is designed for systems engineers in practice political risk professionals managers policy makers engineers in other engineering fields scientists decision makers in industry and government and to serve as a reference work in systems engineering and risk management courses with focus on security and defense operations Global Social Policy Kepa Artaraz, Liz Cunningham, Michael Hill, 2016-06-29 Social policy is a subject that helps develop our understanding of the meaning of human wellbeing and of the systems by which wellbeing must be promoted As a discipline social policy has traditionally been blunted by a focus on the nation state however in this age of globalisation the most pressing challenges such as climate change ageing populations and flagging economies serve as proof that even at national level social policy is now more heavily influenced by global factors than ever before In this important and authoritative text Kepa Artaraz and Michael Hill provide a richly detailed contribution to our understanding of the global forces shaping social problems today Part One discusses the different approaches to social policy and explores the process of globalisation looking particularly at

its winners and losers and the implications it has for human well being Part Two examines more closely the key actors in global social policy such as the market the state and international organisations and Part Three provides an opportunity to explore some specific key issues of global importance such as employment and migration demographic change and global poverty Adding considerable momentum to the movement away from a reductionist nationally focused study of the discipline Global Social Policy opens up new and stimulating discussions and provides a fresh framework for the study of human well being Using policy examples from areas around the world to provide a truly international scope it is an essential read for students studying at all levels Wonder City Lynn Ellsworth, 2025-05-06 Reimagining our cities for a sustainable and human centric future In her groundbreaking book Wonder City Lynn Ellsworth delves deep into the heart of modern urban life casting a critical eye on the transformative changes sweeping through cities like New York This compelling journey into the world of urban development goes beyond the usual narrative serving as a passionate call to action that encourages readers to actively participate in shaping the future of their cities Ellsworth expertly navigates through complex themes such as affordable housing urban planning historic preservation and architecture With a focus on major cities undergoing significant transformations Wonder City offers an insightful examination of the challenges and opportunities that define contemporary urban life At the core of this engaging narrative is a striking critique of the real estate industry s influence over urban landscapes Ellsworth reveals how historic and culturally rich urban settings are increasingly being overshadowed by the rise of impersonal glass towers a trend she argues is driven by the industry s grip on politicians and technocrats This analysis is both eye opening and unsettling shedding light on the forces reshaping our urban environments Wonder City is more than a critique however Ellsworth provides a pragmatic blueprint for revitalizing urban spaces She champions the need for affordable housing sustainable urban planning and architecture that respects and enhances the human experience Her arguments challenge the prevailing economic theories behind housing supply and question the architectural ideologies that often justify the demolition of historic urban assets This book is an essential read for urban planners policymakers and anyone interested in the future of urban living Ellsworth's clear accessible insights into complex issues make Wonder City a vital contribution to the discourse on urban development appealing to a broad audience that cares about the dynamics and future of city life

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