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.

<u>Life Sciences September Paper 1 2013 Memo</u>

Karen Holland, Jane Jenkins

Life Sciences September Paper 1 2013 Memo:

Human Behavior and the Social Environment, Micro 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 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 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 **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 as a scientific idea and environmental phenomenon **EU Global Strategy and Human Security Mary** Kaldor, Iavor Rangelov, Sabine Selchow, 2018-04-17 This volume examines the EU s Global Strategy in relation to human

security approaches to conflict Contemporary conflicts are best understood as a social condition in which armed groups mobilise sectarian and fundamentalist sentiments and construct a predatory economy through which they enrich themselves at the expense of ordinary citizens This volume provides a timely contribution to debates over the role of the EU on the global stage and its contribution to peace and security at a time when these discussions are reinvigorated by the adoption of the EU Global Strategy It discusses the significance of the Strategic Review and the Global Strategy for the re articulation of EU conflict prevention crisis management peacebuilding and development policies in the next few years It also addresses the key issues facing EU security in the 21st century including the conflicts in Ukraine Libya and Syria border security cyber security and the role of the private security sector The book concludes by proposing that the EU adopts a second generation human security approach to conflicts as an alternative to geopolitics or the War on Terror taking forward the principles of human security and adapting them to 21st century realities This book will be of interest to students of human security European foreign and security policy peace and conflict studies global governance and IR in general This Changes Everything Naomi Klein, 2014-09-16 With strong first hand reporting and an original provocative thesis Naomi Klein returns with this **Principles of Clinical Medicine for Space** book on how the climate crisis must spur transformational political change 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 Strengthening the Disaster Resilience of the Academic Biomedical Research Community National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Health and Medicine Division, Institute for Laboratory Animal Research, Board on Earth Sciences and Resources, Board on Health Sciences Policy, Committee on Strengthening the Disaster Resilience of Academic Research Communities, 2017-11-20 The academic biomedical research community is a hub of employment economic productivity and scientific progress Academic research institutions are drivers of economic development in their local and state economies and by extension the national economy Beyond the economic input that the academic biomedical research community both receives and provides it generates knowledge that in turn affects society in myriad ways The United States has experienced and continues to face the threat of disasters and like all entities the academic biomedical research community can be affected Recent disasters from hurricanes to cyber attacks and their consequences have shown that the investments of the

federal government and of the many other entities that sponsor academic research are not uniformly secure First and foremost events that damage biomedical laboratories and the institutions that house them can have impacts on the safety and well being of humans and research animals Furthermore disasters can affect career trajectories scientific progress and financial stability at the individual and institutional levels Strengthening the Disaster Resilience of the Academic Biomedical Research Community offers recommendations and guidance to enhance the disaster resilience of the academic biomedical research community with a special focus on the potential actions researchers academic research institutions and research sponsors can take to mitigate the impact of future disasters **Decision Making and Knowledge Decision Support Systems** Anna Maria Gil-Lafuente, Constantin Zopounidis, 2014-12-01 This book presents recent advancements of research new methods and techniques applications and projects in decision making and decision support systems It explores expert systems and neural networks knowledge engineering and management fuzzy sets and systems and computational methods for optimization data analysis and decision making It presents applications in Economics Finance Management and Engineering The book undertakes to stimulate scientific exchange ideas and experiences in the field of decision making in Economy and Management Researchers and practitioners alike will benefit from this book when they are dealing with imprecision vagueness and uncertainty in the context of decision making Technological Innovation in Legacy Sectors William B. Bonvillian, Charles Weiss, 2015-08-18 The American economy faces two deep problems expanding innovation and raising the rate of quality job creation Both have roots in a neglected problem the resistance of Legacy economic sectors to innovation While the U S has focused its policies on breakthrough innovations to create new economic frontiers like information technology and biotechnology most of its economy is locked into Legacy sectors defended by technological economic political social paradigms that block competition from disruptive innovations that could challenge their models Americans like to build technology covered wagons and take them out west to open new innovation frontiers we don't head our wagons back east to bring innovation to our Legacy sectors By failing to do so the economy misses a major opportunity for innovation which is the bedrock of U S competitiveness and its standard of living Technological Innovation in Legacy Sectors uses a new unifying conceptual framework to identify the shared features underlying structural obstacles to innovation in major Legacy sectors energy air and auto transport the electric power grid buildings manufacturing agriculture health care delivery and higher education and develops approaches to understand and transform them It finds both strengths and obstacles to innovation in the national innovation environments a new concept that combines the innovation system and the broader innovation context for a group of Asian and European economies Manufacturing is a major Legacy sector that presents a particular challenge because it is a critical stage in the innovation process By increasingly offshoring production the U S is losing important parts of its innovation capacity Innovate here produce here where the U S took all the gains of its strong innovation system at every stage is being replaced by innovate here produce there which threatens to lead to produce

there innovate there To bring innovation to Legacy sectors authors William Bonvillian and Charles Weiss recommend that policymakers focus on all stages of innovation from research through implementation They should fill institutional gaps in the innovation system and take measures to address structural obstacles to needed disruptive innovations In the specific case of advanced manufacturing the production ecosystem can be recreated to reverse jobless innovation and add manufacturing led innovation to the U S s still strong research oriented innovation system Governance Feminism Janet Halley, Prabha Kotiswaran, Rachel Rebouché, Hila Shamir, 2019-03-26 An interdisciplinary multifaceted look at feminist engagements with governance across the global North and global South Governance Feminism Notes from the Field brings together nineteen chapters from leading feminist scholars and activists to critically describe and assess contemporary feminist engagements with state and state like power Gathering examples from North America South America Europe Asia and the Middle East it complements and expands on the companion volume Governance Feminism An Introduction Its chapters argue that governance feminism GF is institutionally diverse and globally distributed emerging from traditional sites of state power as well as from various forms of governance and operating at the grassroots level in the private sector in civil society and in international relations The book begins by confronting the key role that crime and punishment play in GFeminist projects Here contributors explore the ideological and political conditions under which this branch of GF became so robust and rethink the carceral turn Other chapters speak to another face of GFeminism feminists finding in mundane and seemingly unspectacular bureaucratic tools leverage to bring about change in policy and governance practices Several contributions highlight the political strategic and ethical challenges that feminists and LGBT activists must negotiate to play on the governmental field The book concludes with a focus on feminist interventions in postcolonial legal and political orders looking at new policy spaces opened up by conflict postconflict and occupation Providing a clear cross cutting critical lens through which to map developments in feminist governance around the world Governance Feminism Notes from the Field makes sense of the costs and benefits of current feminist realities to reimagine feminist futures Contributors Libby Adler Northeastern U Aziza Ahmed Northeastern U Elizabeth Bernstein Barnard College Amy J Cohen Ohio State U Karen Engle U of Texas at Austin Jacob Gersen Harvard U Leigh Goodmark U of Maryland Aeyal Gross Tel Aviv U Aya Gruber U of Colorado Boulder Janet Halley Harvard U Rema Hammami Birzeit U Palestine Vanja Hamzi U of London Isabel Cristina Jaramillo Sierra Prabha Kotiswaran King s College London Maleiha Malik King s College London Vasuki Nesiah New York U Dianne Otto Melbourne Law School Helen Reece Darren Rosenblum Pace U Jeannie Suk Gersen Harvard U Mariana Valverde U of Toronto Extraterrestrial Contacts: the Roswell foil, UFOs, and how they alter our understanding of the modern **world** Jerry Kroth, 2017-07-22 **Ploughshares and Swords** Jayita Sarkar, 2022-07-15 India s nuclear program is often misunderstood as an inward looking endeavor of secretive technocrats In Ploughshares and Swords Jayita Sarkar challenges this received wisdom narrating a global story of India's nuclear program during its first forty years The book foregrounds the

program s civilian and military features by probing its close relationship with the space program Through nuclear and space technologies India's leaders served the technopolitical aims of economic modernity and the geopolitical goals of deterring adversaries The politically savvy transnationally connected scientists and engineers who steered the program obtained technologies materials and information through a variety of state and nonstate actors from Europe and North America including both superpowers They thus maneuvered around Cold War politics and the choke points of the nonproliferation regime Hyperdiversification increased choices for the leaders of the nuclear program but reduced democratic accountability at home The nuclear program became a consensus enforcing device in the name of the nation Ploughshares and Swords is a provocative new history with global implications It shows how geopolitical and technopolitical visions influence decisions about the nation after decolonization Thanks to generous funding from the Swiss National Science Foundation the ebook editions of this book are available as Open Access volumes from Cornell Open cornellpress cornell edu cornell open and other repositories **Deadly Voyages** Steven W. Bender, Veronica Fynn Bruey, 2019-12-16 Deadly Voyages Migrant Journeys across the Globe explores the burdens and impact of perilous migration while considering which laws policies practices and venues might establish empathy and protection for migrants This interdisciplinary volume envisions and calls for a transformation in migration policy motivated by the common goal of drastically reducing the peril migrants face when compelled to make their treacherous journeys All contributors to this volume agree on the inadequacy of current approaches and the dire need for change in global migration law and policy Therefore the book seeks to inform educate persuade and facilitate newer or less heard perspectives toward wider participation and influence within the forced migration policy debate Guided by the famous advice of Karl Marx that the point should be changing the world rather than merely analyzing or interpreting it the contributors suggest practical measures to fix the current gap in responses to migrant peril along with strategies for diagnosing countering and promoting human dignity and social justice with the aim of preventing future deaths Medical Biotechnology Innovation in India P Omkar and injuries in migrant journeys across the globe Nadh,2022-06-03 This book examines the medical biotechnology industry in India through the lens of a critical political economy It discusses the sharp trajectory of growth in the biotechnology business and the state of investments subsidies and patents which propelled the rise of the industry in India The book uses in depth interviews and case studies to analyse the roles of various financial actors state institutions and academia in the medical biotechnology ecosystem Focusing on the relationship between India's neoliberal policies and the swift growth of the industry the author examines the merits and demerits of the current market driven biomedical ecosystem exploring the trends in the industry biomedical start ups the use of human resources and capital accumulation process The book reiterates and emphasises the need for the democratisation of scientific and medical work and for striking a balance between economic gains and public health priorities Comprehensive and insightful this book will be of interest to scholars and researchers of science technology society studies public health

Applying the Roper-Logan-Tierney Model in Practice - E-Book Karen Holland, Jane Jenkins, 2019-03-11 New edition of a successful textbook which demonstrates the theory and practice of one of the most popular models of nursing Karen Holland Jane Jenkins and their colleagues carefully explain and explore how the Roper Logan Tierney Model can help today s student learn how to care for patients in a variety of health care contexts and use it as a framework for their nursing practice Rich with real life case studies and thought provoking exercises this book has a helpful problem solving approach which strongly encourages further learning and reflection New edition of a successful textbook which explains the theory and practice of one of the most popular models of nursing Structured approach to a core range of activities of living clearly illustrate how they interconnect and may be promoted or compromised by health and illness and influenced by external factors Explains the theory to show how it can be applied in practice to assess plan deliver and evaluate individualised nursing care A helpful case study approach enables readers see how the model works in real life Written by experts who actively encourage a problem solving approach to nursing care and practice Additional exercises are designed to encourage further learning and reflective practice as well as develop skills in literature searching and evidence based care Helpful appendices include a range of reference material such as the Care Plan Documentation and Audit Tool Laboratory Reference Values the Roper Logan Tierney Assessment Schedule and other commonly used nursing documentation Ideal for use in a variety of contemporary health care delivery environments including the acute and community based settings Presents the latest evidence base for safe and effective nursing practice Ideal for use in a variety of contemporary Health Care Delivery settings both in the UK and overseas Secrets of the Cold War Andrew Long, 2024-01-05 The dramatic story of how the

superpowers collected secrets and used intelligence to build an advantage during the Cold War the longest and most dangerous confrontation of the twentieth century The Cold War which lasted from the end of the Second World War to the collapse of the Soviet Union in 1991 was fought mostly in the shadows with the superpowers maneuvering for strategic advantage in an anticipated global armed confrontation that thankfully never happened How did the intelligence organizations of the major world powers go about their work What advantages were they looking for Did they succeed By examining some of the famous infamous or lesser known intelligence operations from both sides of the Iron Curtain this book explains how the superpowers went about gathering intelligence on each other examines the type of information they were looking for what they did with it and how it enabled them to stay one step ahead of the opposition Possession of these secrets threatened a Third World War but also helped keep the peace for more than four decades With access to previously unreleased material the author explores how the intelligence organizations both civilian and military took advantage of rapid developments in technology and how they adapted to the changing threat The book describes the epic scale of some of these operations the surprising connections between them and how they contributed to a complex multi layered intelligence jigsaw which drove decision making at the highest level On top of all the tradecraft gadgets and cloak and dagger the book also looks at the human side of espionage their ideologies and motivations the winners and losers and the immense courage and frequent betrayal of those whose lives were touched by the Secrets of the Cold War Hard Target Stephan Haggard, Marcus Noland, 2017-05-30 Because authoritarian regimes like North Korea can impose the costs of sanctions on their citizens these regimes constitute hard targets Yet authoritarian regimes may also be immune and even hostile to economic inducements if such inducements imply reform and opening This book captures the effects of sanctions and inducements on North Korea and provides a detailed reconstruction of the role of economic incentives in the bargaining around the country's nuclear program Stephan Haggard and Marcus Noland draw on an array of evidence to show the reluctance of the North Korean leadership to weaken its grip on foreign economic activity. They argue that inducements have limited effect on the regime and instead urge policymakers to think in terms of gradual strategies Hard Target connects economic statecraft to the marketization process to understand North Korea and addresses a larger debate over the merits and demerits of engagement with adversaries 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

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