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.

# <u>Life Science Paper 1 September 2013 Memo</u>

Ronald R. Rindfuss, Minja Kim Choe

### Life Science Paper 1 September 2013 Memo:

Data Management Margaret E. Henderson, 2016-10-25 Libraries organize information and data is information so it is natural that librarians should help people who need to find organize use or store data Organizations need evidence for decision making data provides that evidence Inventors and creators build upon data collected by others All around us people need data Librarians can help increase the relevance of their library to the research and education mission of their institution by learning more about data and how to manage it Data Management will guide readers through Understanding data management basics and best practices Using the reference interview to help with data managementWriting data management plans for grants Starting and growing a data management service Finding collaborators inside and outside the library Collecting and using data in different disciplines Sustainability, Eco-efficiency, and Conservation in Transportation Infrastructure Asset Management Massimo Losa, Tom Papagiannakis, 2014-04-28 Worldwide there is a growing interest in efficient planning and the design construction and maintenance of transportation facilities and infrastructure assets The 3rd International Conference on Transportation Infrastructure ICTI 2014 Pisa April 22 25 2014 contains contributions on sustainable development and preservation of transportation infrastructure assets with a focus on eco efficient and cost effective measures Sustainability Eco efficiency and Conservation in Transportation Infrastructure Asset Management includes a selection of peer reviewed papers on a wide variety of topics Advanced modeling tools LCA LCC BCA performance prediction design tools and systems Data management monitoring and evaluation Emerging technologies and equipments Innovative strategies and practices Environmental sustainability issues Eco friendly design and materials Re use or recycling of resources Pavements tracks and structures Case studies Sustainability Eco efficiency and Conservation in Transportation Infrastructure Asset Management will be particularly of interest to academics researchers and practitioners involved in sustainable development and maintenance of transportation infrastructure assets Risk Regulation in the Internal Market Maria Weimer, 2019-03-13 This book offers a topical inquiry into the legal and political limits of EU regulation in the field of risk and new technologies surrounded by techno scientific complexity uncertainty and societal contestation It uses agricultural biotechnology as a paradigmatic example to illustrate the complex intertwinement between environmental public health economic and social concerns in risk regulation Weimer analyses the drawbacks of the EU approach to agricultural biotechnology showing that its reductionism i e the narrow understanding of GMO risks as well as the exclusion of broader societal concerns related to environmental and social sustainability has undermined both the legitimacy and effectiveness of EU regulation in this area Resistance to this approach however has also triggered legal innovations prompting us to re think EU internal market law including the way in which it manages the tensions between unity and diversity and between social and economic concerns This text offers fresh and original insights into how far the EU can go in harmonizing regulatory approaches to risk At the same time it proposes new ways of re thinking EU risk regulation

to make it more responsive to different perspectives on risk and technology A unique feature of this book is that it contributes to various strains of scholarship including risk regulation internal market law public administration and studies of governance and regulation as well as connecting these themes to broader debates about the legitimacy of European integration and new ways of differentiated integration As a result it assists in re imagining the EU internal market and its regulation as a site of diversity This Changes Everything Naomi Klein, 2014-09-16 The most important book yet from the author of the international bestseller The Shock Doctrine a brilliant explanation of why the climate crisis challenges us to abandon the core free market ideology of our time restructure the global economy and remake our political systems In short either we embrace radical change ourselves or radical changes will be visited upon our physical world. The status quo is no longer an option In This Changes Everything Naomi Klein argues that climate change isn t just another issue to be neatly filed between taxes and health care It s an alarm that calls us to fix an economic system that is already failing us in many ways Klein meticulously builds the case for how massively reducing our greenhouse emissions is our best chance to simultaneously reduce gaping inequalities re imagine our broken democracies and rebuild our gutted local economies She exposes the ideological desperation of the climate change deniers the messianic delusions of the would be geoengineers and the tragic defeatism of too many mainstream green initiatives And she demonstrates precisely why the market has not and cannot fix the climate crisis but will instead make things worse with ever more extreme and ecologically damaging extraction methods accompanied by rampant disaster capitalism Klein argues that the changes to our relationship with nature and one another that are required to respond to the climate crisis humanely should not be viewed as grim penance but rather as a kind of gift a catalyst to transform broken economic and cultural priorities and to heal long festering historical wounds And she documents the inspiring movements that have already begun this process communities that are not just refusing to be sites of further fossil fuel extraction but are building the next regeneration based economies right now Can we pull off these changes in time Nothing is certain Nothing except that climate change changes everything And for a very brief time the nature of that change is still up to us 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 Research, Quality, Competitiveness Attilio Stajano, 2008-09-22 The European Union EU was launched as a response to the economic dominance of the United States and to a lesser degree the Soviet Union The nations of Western Europe were too small to compete against large scale and diversi ed economies on their own Six countries eventually expanding to 27 and counting took a series of steps toward progressively deeper integration the removal of int nal tariffs the construction of a common external tariff the elimination of many but not all non tariff barriers leading to a single market and the adoption of a c mon currency by 15 of the member states The EU today equals and even exceeds the U S on many key indicators of performance In the process two similar but nonetheless divergent models of social and economic life stand in contrast with each other The U S is more committed to capitalism and does little to dilute its harsh edges while the nations of Europe support wider social safety nets and more active regulation of commercial activity to mute the crueller aspects of the free market Until recently the economic dynamism of the U S called into question whether the so called European social model was sustainable in an era of globalization The EU was slipping in competitiveness and was being challenged by new global pow houses like China and India Although the U S economy has slowed there is little indication that European countries are capable of leveraging the **Life of Permafrost** Pey-Yi Chu, 2021-01-04 By tracing the English word permafrost back to situation to their advantage its Russian roots this unique intellectual history uncovers the multiple contested meanings of permafrost as a scientific idea and environmental phenomenon 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 The Routledge Social Science Handbook of AI Anthony Elliott, 2021-07-12 The Routledge Social Science Handbook of AI is a landmark volume providing students and teachers with a comprehensive and accessible guide to the major topics and trends of research in the social sciences of artificial intelligence AI as well as surveying how the digital revolution from supercomputers and social media to advanced automation and robotics is transforming society culture politics and economy The Handbook provides representative coverage of the full

range of social science engagements with the AI revolution from employment and jobs to education and new digital skills to automated technologies of military warfare and the future of ethics The reference work is introduced by editor Anthony Elliott who addresses the question of relationship of social sciences to artificial intelligence and who surveys various convergences and divergences between contemporary social theory and the digital revolution The Handbook is exceptionally wide ranging in span covering topics all the way from AI technologies in everyday life to single purpose robots throughout home and work life and from the mainstreaming of human machine interfaces to the latest advances in AI such as the ability to mimic and improve on many aspects of human brain function A unique integration of social science on the one hand and new technologies of artificial intelligence on the other this Handbook offers readers new ways of understanding the rise of AI and its associated global transformations Written in a clear and direct style the Handbook will appeal to a wide undergraduate audience 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 **Show Me the Evidence** Ron Haskins, Greg Margolis, 2014-12-01 The first comprehensive history of the Obama administration s evidence based initiatives From its earliest days the Obama administration planned and enacted several initiatives to fund social programs based on rigorous evidence of success Ron Haskins and Greg Margolis tell the story of six spanning preschool and K 12 education teen pregnancy employment and training health and community based programs Readers will appreciate the fast moving descriptions of the politics and policy debates that shaped these federal programs and the analysis of whether they will truly reshape federal social policy and greatly improve its impacts on the nation's social problems Based on interviews with 134 individuals including advocates officials at the Office of Management and Budget and the Domestic Policy Council Congressional staff and officials in the federal agencies administering the initiatives as well as Congressional and administration documents and news accounts the authors examine each of the six initiatives in separate chapters The story of each initiative includes a review of the social problem the initiative addresses the genesis and enactment of the legislation that authorized the initiative and the development of the procedures used by the administration to set the evidence standard and evaluation requirements including the requirements for grant applications and awarding of grants 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 Father and Daughter Ann Oakley, 2014-10-22 Father and daughter provides an unique insider perspective on two key figures in twentieth century British social science Ann Oakley a highly respected sociologist and best selling writer draws on her own life and that of her father Richard Titmuss a well known policy analyst and defender of the welfare state to offer an absorbing view of the connections between private lives and public work Using an innovative mix of biography autobiography intellectual history archives and personal interviews some of which have not been previously available to the public she provides a compelling narrative about gender patriarchy methodology and the politics of memory and identity This fascinating analysis defies the usual social science publications to offer a truly distinctive account which will be of wide interest 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 Nimble Baba serve as an important resource for academics researchers professionals students and policy makers 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 Low Fertility, Institutions, and their Policies Ronald R. Rindfuss, Minja Kim Choe, 2016-06-16 This volume examines ten economically advanced countries in Europe and Asia that have experienced different levels of fertility decline It offers readers a cross country perspective on the causes and consequences of low birth rates and the different policy responses to this worrying trend The countries examined are not only diverse geographically historically and culturally but also have different policies and institutions in place They include six very low fertility countries Austria Czech Republic Hungary Italy Spain and Taiwan and four that have close to replacement level fertility United Kingdom Norway Canada and France Although fertility has gone down in all these countries over the past 50 years the chapters examine the institutional policy and cultural factors that have led some countries to have much lower fertility rates than others In addition the final chapter provides a cross country comparison of individual perceptions about obstacles to fertility based on survey data and government support for families This broad overview along with a general introduction helps put the specific country papers in context As birth rates continue to decline there is increasing concern about the fate of social welfare systems including healthcare and programs for the elderly This book will help readers to better understand the root causes of such problems with its insightful discussion on how a country's institutions policies and culture shape fertility trends and levels & Hess' Toward Healthy Aging E-Book Theris A. Touhy, Kathleen F Jett, 2019-08-24 Ensure you thoroughly understand the intricate details of providing effective care for adults as they age Ebersole Hess Toward Healthy Aging 10th Edition is the only comprehensive gerontological nursing text that effectively communicates how to provide holistic care promote healthy lives and address end of life issues and concerns Grounded in the core competencies recommended by the AACN in collaboration with the Hartford Institute for Geriatric Nursing the tenth edition has been extensively revised and updated with shorter more streamlined chapters and pedagogical features to facilitate learning It covers the areas of safety and ethical considerations genetics communication with the patient and caregiver promoting health in persons with conditions commonly occurring in later life world wide addressing loss and palliative care and much more Special sections provide an honest look at the universal experience of aging and the nurse s role in the reduction of health disparities and inequities as a member of the global community Plus it contains a variety of new learning features that focus on applying research and thinking critically in when providing care to aging adults across the care continuum The ^ARevolution Will Not Be Televised Noriko Manabe, 2015-12-18 Since the Fukushima nuclear power plant disaster antinuclear activism has swelled into one of the most popular and passionate movements in Japan The Revolution Will Not Be Televised shows that music played a central role in expressing antinuclear sentiments and mobilizing Japanese political resistance Combining musical analysis with ethnographic participation author Noriko Manabe offers an innovative typology of spaces central to the

performance of protest music cyberspace demonstrations festivals and recordings and provides a compelling new perspective on the role of music in political movements Genetically Engineered Crops National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on Genetically Engineered Crops: Past Experience and Future Prospects, 2017-01-28 Genetically engineered GE crops were first introduced commercially in the 1990s After two decades of production some groups and individuals remain critical of the technology based on their concerns about possible adverse effects on human health the environment and ethical considerations At the same time others are concerned that the technology is not reaching its potential to improve human health and the environment because of stringent regulations and reduced public funding to develop products offering more benefits to society While the debate about these and other questions related to the genetic engineering techniques of the first 20 years goes on emerging genetic engineering technologies are adding new complexities to the conversation Genetically Engineered Crops builds on previous related Academies reports published between 1987 and 2010 by undertaking a retrospective examination of the purported positive and adverse effects of GE crops and to anticipate what emerging genetic engineering technologies hold for the future This report indicates where there are uncertainties about the economic agronomic health safety or other impacts of GE crops and food and makes recommendations to fill gaps in safety assessments increase regulatory clarity and improve innovations in and access to GE technology **Global Justice and Finance** Tim Hayward, 2019 Can global justice be promoted by distributing money more equitably This book casts new light on this question by considering what is presupposed about finance and challenges the tradition of global justice theory that proposes modest reforms to the international institutional order as sufficient for achieving a more just world

Unveiling the Magic of Words: A Review of "Life Science Paper 1 September 2013 Memo"

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