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 then 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.
- 101 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 M</u>

**Sarah Giest** 

### Life Science Paper 1 September 2013 M:

China's Peasant Agriculture and Rural Society Jan Douwe van der Ploeg, Jingzhong Ye, 2016-05-20 China's agriculture and rural society has undergone rapid changes in recent years Many poorer farmers and younger people have moved to cities and yet China has an immense challenge to feed a growing and more affluent population This book provides a bottom up view of China's agriculture showing how the many millions of Chinese peasants make a living It presents a vivid description of the mechanisms used by rural households to defend and sustain their livelihoods increase their agricultural production and improve the quality of their lives The authors examine the newly emerging trajectories of entrepreneurial and capitalist farming and assess whether such alternatives will be able to meet the enormous social economic and environmental challenges that China faces The book also explores the paradigm that has underpinned the organisation and development of China's agriculture from ancient times to the present day This shows the importance of balancing in the Chinese model as compared to the one sided imposition of continual modernization in the western model It is argued that such balancing is at the core of the current Sannong policy referring to the three ruralities of food sovereignty wellbeing for peasant households The Trend Management Toolkit A. Kjaer, 2014-10-07 In a fast moving world businesses need and an attractive countryside to keep up with data analysis and pattern spotting to identify future opportunities Anne Lise Kjaer presents a unique methodology for global trend spotting along with practical tools and approaches to help companies and organizations analyse market changes and determine the way ahead mHealth Innovation David Metcalf, Rick Krohn, 2021-03-24 The editors of the HIMSS Books best seller mHealth From Smartphones to Smart Systems 603 have returned to deliver an expansive survey of the initiatives innovators and technologies driving the patient centered mobile healthcare revolution mHealth Innovation Best Practices from the Mobile Frontier explores the promise of mHealth as a balance between emerging technologies and process innovations leading to improved outcomes with the ultimate aim of creating a patient centered and consumer driven healthcare ecosystem Examining the rapidly changing mobile healthcare environment from myriad perspectives the book includes a comprehensive survey of the current state ecosystem app development interoperability security standards organizational and governmental policy innovation next generation solutions and mBusiness and 20 results driven world spanning case studies covering behavior change patient engagement patient provider decision making mobile gaming mobile prescription therapy home monitoring mobile to mobile online delivery access to care app certification and quality evaluations mixed media campaigns and much more The elephant and the dragon in contemporary life sciences Joy Y. Zhang, Saheli Datta Burton, 2022-03-15 This book provides a powerful diagnosis of why the global governance of science struggles in the face of emerging powers Through unpacking critical events in China and India over the past twenty years it demonstrates that the subversiveness assumed in the two countries rise in the life sciences reflects many of the regulatory challenges that are shared worldwide It points to a decolonial imperative for science governance to be responsive and

effective in a cosmopolitan world By highlighting epistemic injustice within contemporary science the book extends theories of decolonisation Achieving sustainable cultivation of maize Volume 2 Dr Dave Watson, 2017-07-31 Summarises current good agricultural practice in maize cultivation from seed selection to nutrient management conservation agriculture rotations and intercropping Reviews advances in understanding and managing diseases and pests such as viruses nematodes and weeds Discusses ways maize cultivation can be made more climate smart **Genetic Discrimination** Gerard Quinn, Aisling de Paor, Peter Blanck, 2014-11-20 As genetic technologies advance genetic testing may well offer the prospect of detecting the onset of future disabilities Some research also forwards that certain behavioural profiles may have a strong genetic basis such as the determination to succeed or the propensity for risk taking As this technology becomes more prevalent there is a danger that genetic information may be misused by third parties and that particular genetic profiles may be discriminated against by employers by providers of social goods and services such as insurance companies and even by educational facilities This book explores the different forms and potential uses of genetic testing Drawing together leading experts in disability law bioethics health law and a range of related fields it highlights the ethical and legal challenges arising as a result of emerging and rapidly advancing genetic science On examining transatlantic perspectives on the matter chapters in the book ask whether the US Genetic Information Nondiscrimination Act GINA is proving to be an effective tool in addressing the issue of genetic discrimination and alleviating fears of discrimination. The book also reviews what insights may be gained from GINA within employment and health insurance contexts and asks how the UN Convention on the Rights of Persons with Disabilities CRPD may impact similar debates within the European Union The book focuses particularly on the legislative and policy framework in the European Union with an emphasis on the gaps in protection and the scope for specific legislative action in this area This book will be of great interest to scholars and students of discrimination law bioethics and disability law and will be of considerable use to legal practitioners medical practitioners and policy makers in The Spark in the Machine Daniel Keown, 2014-03-20 Challenging those who believe acupuncture to bear no this area relation to Western medicine this witty accessible and highly original book shows how Chinese medicine can explain mysteries of the body and how an integration of Chinese and Western medicine can lead to a fuller understanding of how our bodies function Critical Role of Animal Science Research in Food Security and Sustainability National Research Council, Division on Earth and Life Sciences, Board on Agriculture and Natural Resources, Policy and Global Affairs, Science and Technology for Sustainability Program, Committee on Considerations for the Future of Animal Science Research, 2015-03-31 By 2050 the world's population is projected to grow by one third reaching between 9 and 10 billion With globalization and expected growth in global affluence a substantial increase in per capita meat dairy and fish consumption is also anticipated The demand for calories from animal products will nearly double highlighting the critical importance of the world's animal agriculture system Meeting the nutritional needs of this population and its demand for

animal products will require a significant investment of resources as well as policy changes that are supportive of agricultural production Ensuring sustainable agricultural growth will be essential to addressing this global challenge to food security Critical Role of Animal Science Research in Food Security and Sustainability identifies areas of research and development technology and resource needs for research in the field of animal agriculture both nationally and internationally This report assesses the global demand for products of animal origin in 2050 within the framework of ensuring global food security evaluates how climate change and natural resource constraints may impact the ability to meet future global demand for animal products in sustainable production systems and identifies factors that may impact the ability of the United States to meet demand for animal products including the need for trained human capital product safety and quality and effective communication and adoption of new knowledge information and technologies The agricultural sector worldwide faces numerous daunting challenges that will require innovations new technologies and new ways of approaching agriculture if the food feed and fiber needs of the global population are to be met The recommendations of Critical Role of Animal Science Research in Food Security and Sustainability will inform a new roadmap for animal science research to meet the challenges of sustainable animal production in the 21st century Cycling Futures Regine Gerike, John Parkin, 2016-03-09 Pointing the way to the future of research and development in relation to cycling as a mode of transport this book investigates some of the significant recent developments in the technology provision for and take up of cycling in various parts of the world Tensions at the heart of the nature of cycling remain on the one hand cycling is frequently viewed as being a risky activity while on the other hand it is seen as being a way of allowing populations to live healthier lives Reviewing this dichotomy the authors in this book consider the ways that cycling is planned and promoted This is done partly in relation to these issues of risk and health but also from the broader perspective of behavioural response to the changing nature of cycling A section on methodologies is also included which outlines the current state of the art and points a way to future research Capacity to Innovate Sarah Giest, 2021-04-07 In The Capacity to Innovate Sarah Giest provides insight into the collaborative and absorptive capacities needed to provide public support to local innovation through cluster organizations The book offers a detailed view of the vertical multi level and horizontal dynamics in clusters and cluster policy and addresses how they are managed and supported Using the biotechnology field as an example Giest highlights challenges in the collaborative efforts of public bodies private companies and research institutes to establish a successful ecosystem of innovation in this sector The book argues that cluster policy in collaboration with cluster organizations should focus on absorptive and collaborative capacity elements missing in the cluster context in order to improve performance Currently governments operate at different levels from the local to the supranational in order to support clusters and cluster policies are often pursued alongside other programs leading to uncoordinated efforts and ineffective cluster strategies The Capacity to Innovate advocates for a coordinated effort by government and cluster organizations to support capacity elements lacking within the specific cluster

**Proliferation of Weapons- and Dual-Use Technologies** Margaret E. Kosal, 2021-07-26 This book explores and context analyzes the rapid pace of technological evolution in diplomatic information military and economic sectors which has contributed to a dynamic international policy environment Global political stability is greatly influenced by innovations originating from numerous sources including university labs the technology sector and military research Collectively these innovations guide the movement of people ideas and technology that in turn affect the international balance of power The objective of this volume is to develop new insights into how the proliferation of innovative ideas low cost weapons and dual use technologies impact the changing global security landscape Innovative and dual use technologies can be used for beneficial purposes or defensive purposes Alternatively they may be appropriated or employed for nefarious purposes by hostile military powers and non state actors alike Such actions can threaten global security and stability As the complexity of technological innovations continues to increase existing control mechanisms such as international regulations and security arrangements may be insufficient to stem the tide of proliferation over time As such this works seeks to assess and present policy solutions to curtail the threat to global stability posed by the proliferation of weapons and dual use technology The Routledge Handbook of Environment and Communication Anders Hansen, Robert Cox, 2015-03-05 This Handbook provides a comprehensive statement and reference point for theory research and practice with regard to environment and communication and it does this from a perspective which is both international and multi disciplinary in scope Offering comprehensive critical reviews of the history and state of the art of research into the key dimensions of environmental communication the chapters of this handbook together demonstrate the strengths of multi disciplinary and cross disciplinary approaches to understanding the centrality of communication to how the environment is constructed and indeed contested socially politically and culturally Organised in five thematic sections The Routledge Handbook of Environment and Communication includes contributions from internationally recognised leaders in the field The first section looks at the history and development of the discipline from a range of theoretical perspectives Section two considers the sources communicators and media professionals involved in producing environmental communication Section three examines research on news entertainment media and cultural representations of the environment The fourth section looks at the social and political implications of environmental communication with the final section discussing likely future trajectories for the field The first reference Handbook to offer a state of the art comprehensive overview of the emerging field of environmental communication research this authoritative text is a must for scholars of environmental communication across a range of disciplines including environmental studies media and communication studies cultural studies and related disciplines

**The Metabolism of Islands** Simron Singh, Marina Fischer-Kowalski, Marian Chertow, 2021 This book makes the case for why we should care about islands and their sustainability Islands are hotspots of biocultural diversity and home to 600 million people that depend on one sixth of the earth's total area including the surrounding oceans for their subsistence Today

they are at the frontlines of climate change and face an existential crisis Islands are however potential hubs of innovation that are uniquely positioned to be leaders in sustainability and climate action This volume argues that a full fledged program on island industrial ecology is urgently needed with the aim of offering policy relevant insights and strategies to sustain small islands in an era of global environmental change The nine contributions in this volume cover a wide range of applications of socio metabolic research from flow accounts to stock analysis and their relationship to services in space and time They offer insights into how reconfiguring patterns of resource use will allow island governments to build resilience and adapt to the challenges of climate change 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 Studying and Researching with Social Media Megan Poore, 2014-04-29 Wondering what your lecturers are looking for in a blog post Asking yourself how that s different from writing an essay or a wiki page Unsure if Twitter really can be used to build your online profile as a researcher If you want or need to integrate social media tools into your studies and research this practical book is your one stop shop Megan Poore shares the secrets of how to harness the power of social media tools to improve your academic productivity Inside you ll find out how to write a good blog post contribute to a wiki maximise your grades when creating an audio visual presentation find and share the latest research via Twitter keep safe online Featuring handy illustrations and exercises as well as guidance on broader issues such as copyright avoiding plagiarism and cyberbullying you ll find out all you need to successfully use social media to support your study and research Visit the Studying and Researching with Social Media blog which accompanies the book sharing tips and guidance on using social media to improve your study and research skills The Student Success series

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generally viewed as joyous occasions Yet for numerous women these events instead bring anxiety depression and emotional distress Increased interest in risk reduction and early clinical intervention is bringing reproductive issues to the forefront of women s mental health The scope of Women s Reproductive Mental Health across the Lifespan begins long before the childbearing years and continues well after those years have ended Empirical findings case examples and dispatches from emerging areas of the field illuminate representative issues across the continuum of women s lives with the goal of more effective care benefitting women and their families Chapter authors discuss advances in areas such as fertility treatment and contraception and present current thinking on the psychological impact of pregnancy loss menopause cancer and other stressors These expert contributors emphasize the connections between an individual s biology and psychology and cultural expectations in shaping women s mental health and the balance between a client s unique history and current clinical knowledge clinicians need to address disorders Included in the coverage The experience of puberty and emotional wellbeing Body image issues and eating disorders in the childbearing years Risk assessment and screening during pregnancy Normal and pathological postpartum anxiety Mood disorders and the transition to menopause The evolution of reproductive psychiatry A reference with an extended shelf life Women's Reproductive Mental Health across the Lifespan enhances the work of researchers and practitioners in social work clinical psychology and psychiatry and has potential relevance to all Safeguarding the Bioeconomy National Academies of Sciences, Engineering, and health care professionals Medicine, Division on Engineering and Physical Sciences, Health and Medicine Division, Policy and Global Affairs, Division on Earth and Life Studies, Forum on Cyber Resilience, Board on Health Sciences Policy, Board on Science, Technology, and Economic Policy, Board on Agriculture and Natural Resources, Board on Life Sciences, Committee on Safeguarding the Bioeconomy: Finding Strategies for Understanding, Evaluating, and Protecting the Bioeconomy While Sustaining Innovation and Growth, 2020-03-31 Research and innovation in the life sciences is driving rapid growth in agriculture biomedical science information science and computing energy and other sectors of the U S economy This economic activity conceptually referred to as the bioeconomy presents many opportunities to create jobs improve the quality of life and continue to drive economic growth While the United States has been a leader in advancements in the biological sciences other countries are also actively investing in and expanding their capabilities in this area Maintaining competitiveness in the bioeconomy is key to maintaining the economic health and security of the United States and other nations Safeguarding the Bioeconomy evaluates preexisting and potential approaches for assessing the value of the bioeconomy and identifies intangible assets not sufficiently captured or that are missing from U S assessments This study considers strategies for safeguarding and sustaining the economic activity driven by research and innovation in the life sciences It also presents ideas for horizon scanning mechanisms to identify new technologies markets and data sources that have the potential to drive future development of the bioeconomy Geographies, Mobilities, and Rhythms over the Life-Course Elaine

Stratford, 2014-11-20 By thinking in terms of the geographies of mobilities we are better able to understand the central importance of movements rhythms and shifting emplacements over the life course This innovative book represents research from a new and flourishing multidisciplinary field that includes among other things studies on smart cities infrastructures and networks mobile technologies for automated highways or locative media mobility justice and rights to stay or enter or reside These activities cadences and changing attachments to place have profound effects first upon how we conduct or govern ourselves and each other via many social institutions and second upon how we constitute the spaces in and through which our lives are experienced This scholarship also has clear connections to numerous aspects of social and spatial policy Medical Aspects of Biological Warfare, 2e Joel Bozue, Christopher K. Cote, Pamela J. Glass, The Borden Institute, U.S. Army Medical Department, 2018-08-01 Reflecting the critical threat posed by biological warfare and terrorism in a post 9 11 world Medical Aspects of Biological Warfare 2e addresses the weaponization of biological agents categorizing potential agents as food waterborne or agricultural agents or toxins and discusses their respective epidemiology Recent advances in biomedical knowledge are presented that include descriptions of individual agents and the illnesses induced Authors discuss biotoxins and explain methods for early identification for anthrax plaque smallpox alphaviruses and staphylococcal enterotoxins Case studies and research on successful management practices treatments and antidotes are also included Contains updated and revised material since previous 2007 edition Previous Print Hardcover ISBN 9780160797316 eBook 9780160872389 Related products More published products by The Borden Institute U S Army Medical Department AMEDD are here https bookstore gpo gov agency army medical department amedd Arms Weapons collection is available here https bookstore gpo gov catalog arms weapons Click here to find resources about Hazardous Materials HAZMAT CBRNE Find more Physician References and Medical Handbooks here https bookstore gpo gov catalog physician references medical handbooks

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