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.
- 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 Memo</u>

Mary Kaldor, Iavor Rangelov, Sabine Selchow

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 With strong first hand reporting and an original provocative thesis Naomi Klein returns with this book on how the climate crisis must spur transformational 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 situation to their advantage Life of Permafrost Pev-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 **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 Decision Making and Knowledge <u>Decision Support Systems</u> 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 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

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