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.

# Life Science Memo For September 2014

**Timothy M. Gieseke** 

#### **Life Science Memo For September 2014:**

Ensuring National Biosecurity Carole R Baskin, Alan Zelicoff, 2016-02-03 Ensuring National Biosecurity Institutional Biosafety Committees reviews the various responsibilities and associated challenges Institutional Biosafety Committees IBCs face and proposes changes that may help improve this system and increase national biosecurity and worker safety In recent years IBCs in academic and other institutions have been tasked with increasing levels of responsibility overseeing work with recombinant genetic material and hazardous agents IBC members often lack the training to effectively ensure that the work performed is truly safe for scientists and the general community and so increasingly rely upon the expertise of the researchers themselves With the proposed US dual use research policies soon to be implemented this strain may increase This book provides readers with the necessary information to be able to enhance national biosecurity within the US EU Australia New Zealand Japan and more Ensuring National Biosecurity is as an invaluable reference for biosafety professionals or for researchers who need to understand the regulatory landscape that impacts their research Examines and assesses the current state of Institutional Biosafety Committees IBCs Collates contributions from world renowned experts in fields as diverse as research compliance law and astrobiology Reflects an international perspective on regulatory biosecurity Environmental Rights Stephen J. Turner, Dinah L. Shelton, Jona Razzaque, Owen McIntyre, James R. May, 2019-05-23 A comprehensive and systematic guide to environmental rights and their relationship with standards of protection globally nationally and locally Historical Guide to NASA and the Space Program Ann Beardsley, C. Tony Garcia, Joseph Sweeney, 2016-09-09 NASA the National Aeronautics and Space Administration created in the wake of the Space Act has and continues to accomplish those precepts every day With many hundreds of satellites launched into space and close to 200 human spaceflights NASA is a proven leader in space exploration Most of the US space exploration efforts have been led by NASA including the Apollo moon landing missions the Skylab space station and later the Space Shuttle Currently NASA is supporting the International Space Station and is overseeing the development of the Orion Multi Purpose Crew Vehicle the Space Launch System and Commercial Crew vehicles NASA is also responsible for the Launch Services Program which provides oversight of launch operations and countdown management for unmanned NASA launches The Historical Guide to NASA and the Space Program contains a chronology an introduction appendixes and an extensive bibliography The dictionary section has over 500 cross referenced entries on space missions astronauts technical terms space shuttles satellites and the international space station This book is an excellent access point for students researchers and anyone wanting to know more about NASA and space exploration 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 Research Council, Division on Earth and Life Studies, Board on Life Sciences, Committee on Key Challenge Areas for Convergence and Health, 2014-06-16 Convergence of the life sciences with fields including physical chemical mathematical computational engineering and social sciences is a key strategy to tackle complex challenges and achieve new and innovative solutions However institutions face a lack of guidance on how to establish effective programs what challenges they are likely to encounter and what strategies other organizations have used to address the issues that arise This advice is needed to harness the excitement generated by the concept of convergence and channel it into the policies structures and networks that will enable it to realize its goals Convergence investigates examples of organizations that have established mechanisms to support convergent research This report discusses details of current programs how organizations have chosen to measure success and what has worked and not worked in varied settings The report summarizes the lessons learned and provides organizations with strategies to tackle practical needs and implementation challenges in areas such as infrastructure student education and training faculty advancement and interinstitutional partnerships Encyclopedia of Library and Information Sciences John D. McDonald, Michael Levine-Clark, 2017-03-15 The Encyclopedia of Library and Information Sciences comprising of seven volumes now in its fourth edition compiles the contributions of major researchers and practitioners and explores the cultural institutions of more than 30 countries This major reference presents over 550 entries extensively reviewed for accuracy in seven print volumes or online The new fourth edition which includes 55 new entires and 60 revised entries continues to reflect the growing convergence among the disciplines that influence information and the cultural record with coverage of the latest topics as well as classic articles of historical and theoretical importance A Minor Revolution Adam Benforado, 2023-02-07 A revelatory investigation into how America is failing its children and an urgent manifesto on why helping them is the best way to improve all of our lives from the New York Times bestselling author of Unfair The New Science of Criminal Injustice Compelling an extremely sympathetic and worthy attempt to protect kids Benforado has written a book that reads like a manifesto His ideas are bold to the point and ambitious The Atlantic At the dawn of the twentieth century a bright new age for children appeared on the horizon with progress on ending child labor providing public education combating indigence promoting wellness and creating a juvenile justice system But a hundred years on the promised light has not arrived Today more than eleven million American children live in poverty and more than four million lack health insurance Each year we prosecute thousands of kids as adults while our schools crumble We deny young people

any political power while we fail to act on the issues that matter most to them racism inequality and climate change Through unforgettable stories law professor Adam Benforado draws a vivid portrait of our neglect We are there when Ariel is placed in an orphanage after her parents are locked away for transporting marijuana when Harold first gazes in disbelief upon the immaculate lawn of an elite private school after a childhood of asphalt play yards when Wylie is hit with a paddle by his public school principal as punishment for taking a moment of silence to protest gun violence When Tyler runs for governor at age seventeen we are also there to witness the extraordinary capacities of young people Our disregard for children's rights is not simply a moral problem it s also an economic and social one The root cause of nearly every major challenge we face from crime to poor health to unemployment can be found in our mistreatment of kids But in that sobering truth is also the key to changing our fate as a nation Drawing on the latest research on the value of early intervention investment and empowerment A Minor Revolution makes the urgent case for putting children first in our budgets and policies in how we develop products and enact laws and in our families and communities Childhood is the window of opportunity for all of us Governance for Sustainable Working Landscapes Timothy M. 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 sustainability science agricultural policy planning or integrated landscape design **Dying of Whiteness** Jonathan M. Metzl, 2019-03-05 A physician s provocative Boston Globe and timely Ibram X Kendi New York Times Book Review account of how right wing backlash policies have deadly consequences even for the white voters they promise to help In election after election conservative white Americans have embraced politicians who pledge to make their lives great again But as physician Jonathan M Metzl shows in Dying of Whiteness the policies that result actually place white Americans at ever greater risk of sickness and death Interviewing a range of everyday Americans Metzl examines how racial resentment has fueled progun laws in Missouri resistance to the Affordable Care Act in Tennessee and cuts to schools and social services in Kansas He shows these policies costs increasing deaths by gun suicide falling life expectancies and rising dropout rates Now updated with a new afterword Dying of

Whiteness demonstrates how much white America would benefit by emphasizing cooperation rather than chasing false promises of supremacy Winner of the Robert F Kennedy Book Award The Caliphate at War Ahmed Hashim, 2018-02-01 ISIS s astonishing and unexpected military victories in 2014 and 2015 redrew the geopolitical map of the Middle East Media attention focused on the organisation s savage treatment of its enemies and its ability to attract foreign fighters but as this dispassionate book demonstrates it also made important innovations in strategy ideology and governance Ahmed S Hashim argues that by focusing their ideology first and foremost on extreme anti Shia sectarianism rather than on Western infidels ISIS founders were able to present themselves as the saviours of what they saw as the embattled Sunni nation in Iraq This enabled them to win the support of Sunni communities Moreover ISIS stunning ability to take major cities was a result of its innovative tactics It sowed terror in advance of its attacks by using targeted assassinations to kill key city leaders and its decentralised regional command structure facilitated an unusual degree of coordination between small assault units At the same time the organisation made a serious effort to engage in state building and population control By going beyond the often starkly unpleasant current affairs of the Islamic State The Caliphate at War undertakes an essential investigation into the successes of the group to better understand how the movement has survived thrived and reshaped the Middle East

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