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 Memorandum November 2014</u>

David Kirk

Life Sciences Memorandum November 2014:

Apollo in the Age of Aquarius Neil M. Maher, 2017-03-27 Winner of the Eugene M Emme Astronautical Literature Award A Bloomberg View Must Read Book of the Year A Choice Outstanding Academic Title of the Year A substance rich original on every page exploration of how the space program interacted with the environmental movement and also with the peace and Whole Earth movements of the 1960s Tyler Cowen Marginal Revolution The summer of 1969 saw astronauts land on the moon for the first time and hippie hordes descend on Woodstock This lively and original account of the space race makes the case that the conjunction of these two era defining events was not entirely coincidental With its lavishly funded mandate to put a man on the moon the Apollo mission promised to reinvigorate a country that had lost its way But a new breed of activists denounced it as a colossal waste of resources needed to solve pressing problems at home Neil Maher reveals that there were actually unexpected synergies between the space program and the budding environmental feminist and civil rights movements as photos from space galvanized environmentalists women challenged the astronauts boys club and NASA's engineers helped tackle inner city housing problems Against a backdrop of Saturn V moonshots and Neil Armstrong s giant leap for mankind Apollo in the Age of Aquarius brings the cultural politics of the space race back down to planet Earth As a child in the 1960s I was aware of both NASA's achievements and social unrest but unaware of the clashes between those two historical currents Maher captures the maelstrom of the 1960s and 1970s as it collided with NASA s program for human spaceflight George Zamka Colonel USMC Ret and former NASA astronaut NASA and Woodstock may now seem polarized but this illuminating original chronicle traces multiple crosscurrents between them Nature

Management of Legionella in Water Systems National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Division on Earth and Life Studies, Board on Population Health and Public Health Practice, Board on Life Sciences, Water Science and Technology Board, Committee on Management of Legionella in Water Systems, 2020-02-20 Legionnaires disease a pneumonia caused by the Legionella bacterium is the leading cause of reported waterborne disease outbreaks in the United States Legionella occur naturally in water from many different environmental sources but grow rapidly in the warm stagnant conditions that can be found in engineered water systems such as cooling towers building plumbing and hot tubs Humans are primarily exposed to Legionella through inhalation of contaminated aerosols into the respiratory system Legionnaires disease can be fatal with between 3 and 33 percent of Legionella infections leading to death and studies show the incidence of Legionnaires disease in the United States increased five fold from 2000 to 2017 Management of Legionella in Water Systems reviews the state of science on Legionella contamination of water systems specifically the ecology and diagnosis This report explores the process of transmission via water systems quantification prevention and control and policy and training issues that affect the incidence of Legionnaires disease It also analyzes existing knowledge gaps and recommends research priorities moving forward

The Truth Pill Dinesh Singh

Thakur, Prashant Reddy Thikkavarapu, 2022-10-10 Since 2004 when the fraud at Ranbaxy the largest Indian pharmaceutical company at the time first came to light the Indian pharmaceutical industry and clinical research organizations have been rocked by a series of scandals after investigations by American and European drug regulators While the West has responded to concerns about quality of Made in India medicine by blocking exports from many Indian pharmaceutical companies the Indian government responded not with regulatory reform but conspiracy theories about vested interests working against India More worryingly the Indian state has also turned a blind eye to a far more serious quality crisis in its domestic pharmaceutical market At times these quality issues manifest themselves in the deaths of Indian citizens as happened in early 2020 when 11 children died in Jammu because of adulterated cough syrup On other occasions a dodgy drug approval process has led to the Indian regulator approving sales of drugs that have never been approved by regulators in the developed markets The result is not just poor health outcomes but outsize profits for pharmaceutical companies manufacturing medicines that have never been validated through scientifically rigorous clinical trials for therapeutic evidence These twin crises in both the domestic and export markets is because India has either outdated regulations or no regulations in some areas Even the outdated regulations are enforced with kids gloves by drug inspectors and judicial magistrates who are ready to forgive even those whose drugs are found to contain barely any active ingredient or dangerously high levels of bacterial endotoxins In a race for growth of the pharmaceutical industry the Indian state has sacrificed scientific rigour and ignored the basic principles of public health Given India s position as the pharmacy of the developing world the failure of the Indian state is a problem for not just India but most of the developing world This timely important and compelling book based on deep research questions and analyzes the actions of the institutions that are responsible for the safety and efficacy of the Indian drug supply in the context of the historical evolution of the Drugs Act 1940 from pre Independence India to the present day The future of Indian public health lies in responding to the issues raised in this book Jordan Investment and Business Guide Volume 1 Strategic and Practical Information IBP, Inc., 2015-09-11 Jordan Investment and Business Guide Volume 1 Strategic and Practical Information **Forced Marriage** and 'Honour' Killings in Britain Christina Julios, 2016-03-09 This book explores the contemporary phenomenon of forced marriage and honour killings in Britain Set against a background of increasing honour based violence within the country s South Asian and Muslim Diasporas the book traces the development of the honour question over the past two decades It accordingly witnesses unprecedented changes in public awareness and government policy including ground breaking honour specific legislation and the criminalisation of forced marriage All of which makes Britain an important context for the study of this now indigenous and self perpetuating social problem In considering the scale of the challenge and its underlying causes attention is paid to the intersections of gendered power structures that disadvantage female members of honour cultures as well as feminist theories that seek to explain them The book features five key case studies of honour killings and draws from

a wide range of narratives including those of honour violence survivors grassroots service providers and legislators Such myriad of perspectives reveals the complexity of the honour issue and the deep ideological divisions that characterise it With the UK's multiculturalist discourse unable to reconcile protecting patriarchal minority cultures with safeguarding gender equality and human rights the book raises fundamental questions about the country's future direction Following a long trend of state sponsored integrationist policies the government's response to the honour question points decisively in the direction of a post multicultural British nation **Proletarian Era Dec2014** Provash Ghosh, 2014-12-01 It is the official newspaper of the Socialist Unity Centre of India Communist It is published from Kolkata in English with online editions Shibdas Ghosh founded the newspaper Nihar Mukherjee was its editor from 1976 to 2010 On his death Provash Ghosh was elected as the General Secretary of SUCI C and the Editor in Chief of the newspaper Annual Report - Indian Council of Social Science Research Indian Council of Social Science Research, 2014 **Britannica Book of the Year** ,2015 **Trade Policy Review** .2018 IARC Monographs on the Evaluation of Carcinogenic Risks to Humans ,1988 CERN Courier ,2014 **Publications of the Jet Propulsion Laboratory** ,1968 **Yearbook of International Organizations 2014-2015** (Volume 3) Union Of International Associations, Union of International Associations, 2014-08-20 The Yearbook of International Organizations provides the most extensive coverage of non profit international organizations currently available Detailed profiles of international non governmental and intergovernmental organizations IGO collected and documented by the Union of International Associations can be found here In addition to the history aims and acitvities of international organizations with their events publications and contact details the volumes of the Yearbook include networks between associations biographies of key people involved and extensive statistical data Volume 3 allows readers to locate organizations by subjects or by fields of activity and specialization and includes an index to Volumes 1 through 3 Oregon Historical Quarterly, 2019 The Journal of Biolaw & Business ,2004 Corporate Power, Corruption & the Destruction of the World's Forests .1996 Malaysia ,2014 Canadiana, 1984 Pharmaceutical Journal; ,1927 English Mechanic and Mirror of Science and Art, 1870

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web isle royale is large enough to support a wolf population but small enough to allow scientists to keep track of all of the wolves and most of the moose on the island in any given year apart from occasionally eating beaver in the summer months the wolves subsist entirely on a diet of moose

the moose and wolves of isle royale lab background isle royale - Feb 26 2022

web the moose moose alces alces first arrived on isle royale in the early 1900s since that time moose have become one of the iconic mammals of isle royale national park the moose population of isle royale has fluctuated over the years since 1980 the population has been as low as 500 animals and as high as 2 400

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web sep 27 2021 this activity explores images of wolves hunting a moose on isle royale which serve as phenomena for learning about predator prey population dynamics isle royale an island in lake superior is the site of the longest continuous predator prey study in the world since 1958 scientists have monitored the island s wolf and moose

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web cause the moose and wolf populations to fluctuate over time the isle royale model in ecobeaker in this lab you will explore populations of predators and prey using a simplified simulation model of the isle royale system the isle royale model involves three species plants moose and wolves

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web wolf moose populations 1980 to today the populations of wolves and moose on isle royale constantly adjust as food availability weather and seasons affect the health and reproduction of the animals over time notice as the wolf population

declines the moose population increases and vice versa in the past forty years isle royale has

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web but we get a different sense is if we also consider the highest density of moose ever observed on isle royale 4 4 moose km2 in 1996 and the subsequent year when the moose population collapsed see section 1 this observation is represented by the point on the lower right portion of the graph

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web 1 how much of a time lag does there appear to be between a moose peak and a wolf peak the time lag between the wolf peak of 1980 and the moose peak of 1995 is about a 15 year time lag 2 during what year was there a large wolf die off hypothesize what might have been the cause of this die off there was a large wolf die off after 1980 exercise 13 isle royale simbio virtual lab flashcards guizlet - Aug 15 2023

web to analyze the relationship of predator prey interactions between moose and wolves what is population growth changes in the size and composition of populations and the factors that cause those changes fill in the blanks the larger a population becomes the it

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web oct 14 2020 the moose population of isle royale has fluctuated over the years since 1980 the population has been as low as 500 animals and as high as 2 400 the fluctuation of population is directly connected to the vegetation and predators of the island

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web what animals populated isle royale after the moose how did they reach the island and what effect did this have on the moose population a small pack of wolves found and crossed a rare ice bridge that formed between the mainland and isle royale in the 1940s

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web wolves and moose of isle royale visit to answer the following introductory questions 1 what are the predators and prey involved in this activity wolf and moose wolf and moose 2 what is the purpose of this study for example how long has this study been happening why did it start what are the goals 3

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web provide a biological explanation for why the moose population overshoots its carrying capacity when moose first colonixe isle royale hint consulting the introduction might help at year 50 or later with the moose population at its carrying capacity what would happen if an extra 200 moose suddenly arrived on isle royale how would this isle royale worksheet docx isle royale worksheet this lab - Feb 09 2023

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