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.

# **2014 November Life Sciences Memorandum**

Management Association, Information Resources

#### 2014 November Life Sciences Memorandum:

Testimony of the Military Compensation and Retirement Modernization Commission United States. Congress. Senate. Committee on Armed Services, United States. Congress. Senate. Committee on Armed Services. Subcommittee on Management of Legionella in Water Systems National Academies of Sciences, Engineering, and Personnel.2015 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 **Combating Violent Extremism and** Radicalization in the Digital Era Khader, Majeed, Neo, Loo Seng, Ong, Gabriel, Mingyi, Eunice Tan, Chin, Jeffery, 2016-04-21 Advances in digital technologies have provided ample positive impacts to modern society however in addition to such benefits these innovations have inadvertently created a new venue for criminal activity to generate Combating Violent Extremism and Radicalization in the Digital Era is an essential reference for the latest research on the utilization of online tools by terrorist organizations to communicate with and recruit potential extremists and examines effective countermeasures employed by law enforcement agencies to defend against such threats Focusing on perspectives from the social and behavioral sciences this book is a critical source for researchers analysts intelligence officers and policy makers interested in preventive methods for online terrorist activities **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 Cyber Law, Privacy, and Security: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources, 2019-06-07 The internet is established in most households worldwide and used for entertainment purposes shopping social networking business activities banking telemedicine and more As more individuals and businesses use this essential tool to connect with each

other and consumers more private data is exposed to criminals ready to exploit it for their gain Thus it is essential to continue discussions involving policies that regulate and monitor these activities and anticipate new laws that should be implemented in order to protect users Cyber Law Privacy and Security Concepts Methodologies Tools and Applications examines current internet and data protection laws and their impact on user experience and cybercrime and explores the need for further policies that protect user identities data and privacy It also offers the latest methodologies and applications in the areas of digital security and threats Highlighting a range of topics such as online privacy and security hacking and online threat protection this multi volume book is ideally designed for IT specialists administrators policymakers researchers academicians and upper level students

Multigenerational Online Behavior and Media Use: Concepts,

Methodologies, Tools, and Applications Management Association, Information Resources, 2019-02-01 The rapid evolution of technology continuously changes the way people interact work and learn By examining these advances from a sociological perspective researchers can further understand the impact of cyberspace on human behavior interaction and cognition Multigenerational Online Behavior and Media Use Concepts Methodologies Tools and Applications is a vital reference source covering the impact of social networking platforms on a variety of relationships including those between individuals governments citizens businesses and consumers The publication also highlights the negative behavioral physical and mental effects of increased online usage and screen time such as mental health issues internet addiction and body image Showcasing a range of topics including online dating smartphone dependency and cyberbullying this multi volume book is ideally designed for sociologists psychologists computer scientists engineers communication specialists academicians researchers and graduate level students seeking current research on media usage and its behavioral effects <u>Progress</u> Toward Restoring the Everglades National Academies of Sciences, Engineering, and Medicine, Division on Earth and Life Studies, Board on Environmental Studies and Toxicology, Water Science and Technology Board, Committee on Independent Scientific Review of Everglades Restoration Progress, 2017-04-07 The Everglades ecosystem is vast stretching more than 200 miles from Orlando to Florida Bay and Everglades National Park is but a part located at the southern end During the 19th and 20th centuries the historical Everglades has been reduced to half of its original size and what remains is not the pristine ecosystem many image it to be but one that has been highly engineered and otherwise heavily influenced and is intensely managed by humans Rather than slowly flowing southward in a broad river of grass water moves through a maze of canals levees pump stations and hydraulic control structures and a substantial fraction is diverted from the natural system to meet water supply and flood control needs The water that remains is polluted by phosphorus and other contaminants originating from agriculture and other human activities Many components of the natural system are highly degraded and continue to degrade Progress Toward Restoring the Everglades is the sixth biennial review of progress made in meeting the goals of the Comprehensive Everglades Restoration Plan CERP This complex multibillion dollar project to protect and restore the

remaining Everglades has a 30 40 year timeline This report assesses progress made in the various separate project components and discusses specific scientific and engineering issues that may impact further progress According to Progress Toward Restoring the Everglades a dedicated source of funding could provide ongoing long term system wide monitoring and assessment that is critical to meeting restoration objectives This report examines the implications of knowledge gained and changes in widely accepted scientific understanding regarding pre drainage hydrology climate change and the feasibility of water storage since the CERP was developed 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 **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 Minerals Yearbook Geological Survey, Interior Department, Mines Bureau, 2019-01-31 This volume covering metals and minerals contains chapters on approximately 90 commodities In addition this volume has chapters on mining and guarrying trends and on statistical surveying methods used by Minerals Information plus a statistical summary

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