



Date: SEPTEMBER 2024

Time: 2 ½ HOURS

Mark: 150

INSTRUCTIONS AND INFORMATION

Read the following instruction carefully before answering the questions.

1. Answer ALL questions.
2. Write ALL the answers on the provided FOLIO PAPER.
3. **STOP OFF** after each question.
4. Start each section on a **NEW** page.
5. Number the answers correctly according to the numbering system used in this question paper.
6. Present your answers according to the instructions for each question.
7. Do ALL drawings in pencil and label them in blue pen.
8. Draw diagrams or flow charts only when asked to do so.
9. The diagrams in this question paper are **NOT** all drawn to scale.
10. You may use a non-programmable calculator, protractor, and compass.
11. You may **NOT** use graph paper.
12. Write neatly and legibly.

EXAM AGREEMENT

I, _____ (Name & Surname), Grade _____

hereby acknowledge that I will abide by all examination rules stipulated below during the writing of my **LIFE SCIENCE** exam.**RULES:**

1. 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**

1.1 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.

- A. Vagina
- B. Uterus
- C. Fallopian tubes
- D. Placenta

1.1.2 Choose the letter that does not explain the process of oogenesis.

- A. The diploid germinal epithelium cells of the ovaries go through the process of mitosis to form many follicles.
- B. Every 21 days, the follicle stimulating hormone (FSH) stimulates one follicle. Only one cell inside of that follicle enlarges and goes through the process of meiosis.
- C. Out of the 4 haploid cells produced through meiosis, only one cell will survive to form a mature ovum.
- D. The other three cells from meiosis will degenerate.

1.1.3 Before copulation the male sperm is stored temporarily in the...

- A. seminal vesicles
- B. scrotum
- C. prostate gland
- D. epididymis

1.1.4 Structure that receives a stimulus and converts it into an impulse

- A. autonomic nervous system
- B. effector
- C. stimulus
- D. receptor

Life Science Grade 12 September 2014 Memo

Michael G. Smith



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An African American Dilemma Zoë Burkholder, 2021-07-11 Presenting a revealing historical perspective on today's charged schooling choices An African American Dilemma illuminates the tensions between school integration and separation that have shaped the long history of black struggles for equal education and civil rights in the North **Teach** Janice Koch, 2018-12-04 Teach is a concise introduction to education that challenges readers' preconceived notions of teaching in order to transform them into reflective practitioners Empathizing with the difficulties students face as they move from the college classroom to their own classrooms revered author Janice Koch invites readers to both reflect on their own dispositions for teaching and look outside of themselves to the demands of the profession making the philosophy of teaching and learning accessible and relevant The Fourth Edition emphasizes the changing student population and the role of technology and globalization in the field while also including the Interstate Teacher Assessment and Support Consortium InTASC standards correlating with each chapter's content With the guidance of this supportive text readers will gain vital exposure by engaging with professional standards from the very start of their career **The Rocket Lab** Michael G. Smith, 2023-05-15 The Rocket Lab Maurice Zucrow Purdue University and America's Race to Space focuses on the golden era of space exploration between 1946 and 1966 specifically the life and times of Purdue University's Dr Maurice J Zucrow a pioneering teacher and researcher in aerospace engineering Zucrow taught America's first university course in jet and rocket propulsion wrote the field's first textbook and established the country's first educational Rocket Lab He was part of a small circle of innovators who transformed Purdue into the country's largest engineering university which became a cradle of astronauts Taking a chronological and thematic approach The Rocket Lab weaves between the local and national drawing in rival universities especially Harvard MIT Princeton and Caltech Also covered is Zucrow's role in the national project system of research and development through World War II and the Cold War At Aerojet he was one of the country's original project engineers dedicated to scientific technical expertise and the stepwise approach He made vanguard power plant contributions to the Northrop Flying Wing as well as the Corporal Nike and Atlas missiles among others Zucrow's work in propulsion helped to improve the country's arsenal of ballistic missiles and space launchers and as a teacher he educated the first generation of aerospace engineers This book elevates Zucrow and the central role he played in getting the United States to space **Debating Modern Medical Technologies** Karen J. Maschke, Michael K. Gusmano, 2018-09-14 This book analyzes policy fights about what counts as good evidence of safety and effectiveness when it comes to new health care technologies in the United States and what political decisions mean for patients and doctors Medical technologies often promise to extend and improve quality of life but come with many questions Are they safe and effective Are they worth the cost When should they be allowed on the market and when should Medicare Medicaid and private insurance companies be required to pay for drugs devices and diagnostic tests Using case studies of disputes about the value of mammography screening genetic testing

for disease risk brain imaging technologies to detect biomarkers associated with Alzheimer s disease cell based therapies and new expensive drugs Maschke and Gusmano illustrate how scientific disagreements about what counts as good evidence of safety and effectiveness are often swept up in partisan fights over health care reform and battles among insurance and health care companies physicians and patient advocates Debating Modern Medical Technologies The Politics of Safety Effectiveness and Patient Access reveals stakeholders differing values and interests regarding patient choice physician autonomy risk assessment government intervention in medicine and technology assessment and scientific innovation as a driver of national and global economies It will help readers to understand the nature and complexity of past and current policy disagreements and their effects on patients **Bulletin of the Atomic Scientists** ,1995-09

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
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