



Date: NOVEMBER 2022

Time: 2 ½ hours

Mark: 100

INSTRUCTIONS AND INFORMATION

Read the following instruction carefully before answering the questions.

1. Answer ALL questions.
2. Write ALL the answers in the provided P10 or P14000.
3. Write a GPM after each question.
4. Start each section in a NEW page.
5. Number the answers correctly according to the numbering system used in the question paper.
6. Present your answers according to the instructions for each question.
7. Do ALL drawing in pencil and label them in blue pen.
8. Draw diagrams in blue ink only when asked to do so.
9. The diagrams in the question paper are NOT to draw 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 of Candidate), Class _____

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 bring any electronic equipment into the examination hall (phones, smart watches and calculators).
2. I will not leave my desk after the start of the exam.
3. I will be treated as a cheater.

I declare, as above and with me, written agreement and consent.

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-D) next to the question number (1.1.1 to 1.1.10) on the P10 or P14000, for example 1.1.1 D.

- 1.1.1 Which ONE of the following hormones controls metabolic rate?

- A. Testosterone
- B. Thyroxine
- C. Growth hormone
- D. Insulin

- 1.1.2 An extract from a gland of an adult monkey was injected into the bloodstream of a young monkey. It caused the young monkey to grow abnormally tall. From which gland was the extract obtained?

- A. Hypothalamus B. Adrenal gland
- C. Hypophyseal/Pituitary gland D. Pancreas

- 1.1.3 The hormone that regulates the amount of salt in the blood

- A. Aldosterone B. Renin
- C. Endocrine glands D. Adrenalin

- 1.1.4 It is the process of maintaining a constant internal environment within narrow limits, despite changes that take place internally and externally.

- A. Homeostasis
- B. Metabolism
- C. Reproduction
- D. Osmosis

Grade 12 Life Science Paper 1

G Orfield



Grade 12 Life Science Paper 1:

X-kit FET Grade 12 LIFE SCIENCE ,2008 Life Sciences Amy Bain,Janet Richer,Janet Weckman,2001-05-15

Everything you need to create exciting thematic science units can be found in these handy guides Developed for educators who want to take an integrated approach these teaching kits contain resource lists reading selections and activities that can be easily pulled together for units on virtually any science topic Arranged by subject each book lists key scientific concepts for primary intermediate and upper level learners and links them to specific chapters where resources for teaching those concepts appear Chapters identify and describe comprehensive teaching resources nonfiction and related fiction reading selections then detail hands on science and extension activities that help students learn the scientific method and build learning across the curriculum A final section helps you locate helpful experiment books and appropriate journals Web sites agencies and related organizations **Research in Education** ,1970 *Resources in Education* ,2001-10 *Research in Education* ,1971 **Developing Models in Science Education** J.K. Gilbert,C. Boulter,2012-12-06 Models and modelling play a central role in the nature of science in its conduct in the accreditation and dissemination of its outcomes as well as forming a bridge to technology They therefore have an important place in both the formal and informal science education provision made for people of all ages This book is a product of five years collaborative work by eighteen researchers from four countries It addresses four key issues the roles of models in science and their implications for science education the place of models in curricula for major science subjects the ways that models can be presented to are learned about and can be produced by individuals the implications of all these for research and for science teacher education The work draws on insights from the history and philosophy of science cognitive psychology sociology linguistics and classroom research to establish what may be done and what is done The book will be of interest to researchers in science education and to those taking courses of advanced study throughout the world **Resources for Teaching Elementary School Science** National Science Resources Center of the National Academy of Sciences and the Smithsonian Institution,1996-04-28 What activities might a teacher use to help children explore the life cycle of butterflies What does a science teacher need to conduct a leaf safari for students Where can children safely enjoy hands on experience with life in an estuary Selecting resources to teach elementary school science can be confusing and difficult but few decisions have greater impact on the effectiveness of science teaching Educators will find a wealth of information and expert guidance to meet this need in Resources for Teaching Elementary School Science A completely revised edition of the best selling resource guide Science for Children Resources for Teachers this new book is an annotated guide to hands on inquiry centered curriculum materials and sources of help in teaching science from kindergarten through sixth grade Companion volumes for middle and high school are planned The guide annotates about 350 curriculum packages describing the activities involved and what students learn Each annotation lists recommended grade levels accompanying materials and kits or suggested equipment and ordering information These

400 entries were reviewed by both educators and scientists to ensure that they are accurate and current and offer students the opportunity to Ask questions and find their own answers Experiment productively Develop patience persistence and confidence in their own ability to solve real problems The entries in the curriculum section are grouped by scientific area Life Science Earth Science Physical Science and Multidisciplinary and Applied Science and by type core materials supplementary materials and science activity books Additionally a section of references for teachers provides annotated listings of books about science and teaching directories and guides to science trade books and magazines that will help teachers enhance their students science education Resources for Teaching Elementary School Science also lists by region and state about 600 science centers museums and zoos where teachers can take students for interactive science experiences Annotations highlight almost 300 facilities that make significant efforts to help teachers Another section describes more than 100 organizations from which teachers can obtain more resources And a section on publishers and suppliers give names and addresses of sources for materials The guide will be invaluable to teachers principals administrators teacher trainers science curriculum specialists and advocates of hands on science teaching and it will be of interest to parent teacher organizations and parents

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Table of Contents Grade 12 Life Science Paper 1

1. Understanding the eBook Grade 12 Life Science Paper 1
 - The Rise of Digital Reading Grade 12 Life Science Paper 1
 - Advantages of eBooks Over Traditional Books
2. Identifying Grade 12 Life Science Paper 1
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Grade 12 Life Science Paper 1
 - User-Friendly Interface
4. Exploring eBook Recommendations from Grade 12 Life Science Paper 1
 - Personalized Recommendations
 - Grade 12 Life Science Paper 1 User Reviews and Ratings
 - Grade 12 Life Science Paper 1 and Bestseller Lists

5. Accessing Grade 12 Life Science Paper 1 Free and Paid eBooks
 - Grade 12 Life Science Paper 1 Public Domain eBooks
 - Grade 12 Life Science Paper 1 eBook Subscription Services
 - Grade 12 Life Science Paper 1 Budget-Friendly Options
6. Navigating Grade 12 Life Science Paper 1 eBook Formats
 - ePub, PDF, MOBI, and More
 - Grade 12 Life Science Paper 1 Compatibility with Devices
 - Grade 12 Life Science Paper 1 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Grade 12 Life Science Paper 1
 - Highlighting and Note-Taking Grade 12 Life Science Paper 1
 - Interactive Elements Grade 12 Life Science Paper 1
8. Staying Engaged with Grade 12 Life Science Paper 1
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Grade 12 Life Science Paper 1
9. Balancing eBooks and Physical Books Grade 12 Life Science Paper 1
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Grade 12 Life Science Paper 1
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Grade 12 Life Science Paper 1
 - Setting Reading Goals Grade 12 Life Science Paper 1
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Grade 12 Life Science Paper 1
 - Fact-Checking eBook Content of Grade 12 Life Science Paper 1
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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10 points total for part a 3 points b there are many environmental threats facing amphibians today such as deforestation 1 point describe one possible anthropogenic reason for deforestation human demand for agriculture housing firewood forest products medicine food lumber

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1 read the following article from the fremont gazette and answer the questions that follow choose any one of the three pollutants mentioned above and respond to each of the following describe one specific source other than the local chemical

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1 read the fremont examiner article below and answer the questions that follow identify one component of the sewage that is targeted for removal by primary treatment and one component of the sewage that is targeted for removal by secondary treatment

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i the number of kwh of electricity that can be produced in one year one point is earned for the correct setup and 1 point for the correct answer units are not required but the student must show calculations in order to receive the answer point

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1 read the following article from the fremont inquirer and answer the questions that follow as mentioned in the article there are several possible explanations for the increase in mountain pine beetles provide one reason why fire suppression policies lead to increased beetle activity

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