Life Science

Grade 12

PAPER 1

Summaries SA

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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. RULE 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 Paper1 2013 September Grade12

Malcolm de Roubaix

Life Science Paper1 2013 September Grade12:

Genetics: The Study of Heredity Science Learning Guide NewPath Learning,2014-03-01 The Genetics The Study of Heredity Student Learning Guide includes self directed readings easy to follow illustrated explanations guiding questions inquiry based activities a lab investigation key vocabulary review and assessment review questions along with a post test It covers the following standards aligned concepts How Trait are Inherited Chromosomes Gregor Mendel Mendel s Experiments Dominant and Recessive Traits Punnett Squares Phenotypes Codominance and Making a Pedigree Aligned to Next Generation Science Standards NGSS and other state standards Sustainability Standards and Global Governance Archna Negi,Jorge Antonio Pérez-Pineda,Johannes Blankenbach,2020-07-02 This open access book focuses on the issue of sustainability standards from the perspective of both global governance frameworks and emerging economies It stems from the recognition that the accelerated pace of economic globalization has generated production and consumption patterns that are generating sustainability concerns Sustainability standards and regulations are increasingly being used in a bid to make global consumption and production more sustainable Given the dense inter connectedness of economic affairs globally the use of sustainability standards has become a concern of global governance who face the challenge of achieving a balance between the use of standards for genuine sustainability objectives and not allowing them to turn into instruments of protectionism or coercion The emerging economies given their increasing engagement with the global economy are most impacted by the use of sustainability standards The emphasis of emerging economies in this book is retained both by using case studies from these economies and by collating perceptions and assessments of those located in these economies The case studies included span sectors such as palm oil forestry food quality vehicular emissions and water standards and address the problems unique to the emerging economies including capacity building for compliance with standards adapting international standards in domestic contexts and addressing the exclusion of small and medium enterprises etc Complex interfaces and dynamics of a global nature are not limited to the thematic of this book but also extend to the process through which it was written This book brings together insights from developed as well as emerging economies Germany India Mexico Brazil Indonesia Pakistan Mexico and China It also brings together scholars and practitioners to jointly ponder upon the conceptual aspects of the global frameworks for sustainability standards This book is a very useful resource for researchers and practitioners alike and provides valuable insights for policy makers as well **The Complete Book of Colleges, 2013 Edition** Princeton Review,2012-08-07 Profiles every four year college in the United States providing detailed information on academic programs admissions requirements financial aid services housing athletics contact names and campus life **Business Education and Ethics: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2017-07-13 In the increasingly competitive corporate sector organizational leaders must examine their current practices to ensure business success This can be accomplished by implementing effective educational

initiatives and upholding proper ethical behavior Business Education and Ethics Concepts Methodologies Tools and Applications is a comprehensive source of academic knowledge that contains coverage on the latest learning and educational strategies for corporate environments as well as the role of ethics and integrity in day to day business endeavors Including a broad range of perspectives on topics such as globalization organizational justice and cyber ethics this multi volume book is ideally designed for managers practitioners students professionals and researchers actively involved in the corporate sector

The Best Class You Never Taught Alexis Wiggins,2017-09-27 The best classes have a life of their own powered by student led conversations that explore texts ideas and essential questions In these classes the teacher s role shifts from star player to observer and coach as the students Think critically Work collaboratively Participate fully Behave ethically Ask and answer high level questions Support their ideas with evidence and Evaluate and assess their own work The Spider Web Discussion is a simple technique that puts this kind of class within every teacher s reach The name comes from the weblike diagram the observer makes to record interactions as students actively participate in the discussion lead and support one another s learning and build community It s proven to work across all subject areas and with all ages and you only need a little know how a rubric and paper and pencil to get started As students practice Spider Web Discussion they become stronger communicators more empathetic teammates better problem solvers and more independent learners college and career ready skills that serve them well in the classroom and beyond Educator Alexis Wiggins provides a step by step guide for the implementation of Spider Web Discussion covering everything from introducing the technique to creating rubrics for discussion self assessment to the nuts and bolts of charting the conversations and using the data collected for formative assessment She also shares troubleshooting tips ideas for assessment and group grading and the experiences of real teachers and students who use the technique to develop and share content knowledge in a way that s both revolutionary and truly inspiring *Sexuality, Society & Pedagogy* Dennis A. Francis,2013-01-01 Sexuality Society and Pedagogy problematises some of the prevailing assumptions that frame this area of study In doing so it aims to make visible the challenges of teaching sexuality education in South African schools while demonstrating its potential for reshaping our conceptions of the social and cultural representations thereof Although the book is largely situated in experiences and perspectives within the South African context it is hoped that the questions raised reflections analyses and arguments will contribute to thinking about sexuality education in diverse contexts in particular more developing contexts **Discourse Analysis** Susan Strauss,Parastou Feiz,2013-12-17 This introductory textbook presents a variety of approaches and perspectives that can be employed to analyze any sample of discourse The perspectives come from multiple disciplines including linguistics sociolinguistics and linguistic anthropology all of which shed light on meaning and the interactional construction of meaning through language use Students without prior experience in discourse analysis will appreciate and understand the micro macro relationship of language use in everyday contexts in professional and academic settings in languages other than

English and in a wide variety of media outlets Each chapter is supported by examples of spoken and written discourse from various types of data sources including conversations commercials university lectures textbooks print ads and blogs and concludes with hands on opportunities for readers to actually do discourse analysis on their own Students can also utilize the book s comprehensive companion website with flash cards for key terms quizzes and additional data samples for in class activities and self study With its accessible multi disciplinary approach and comprehensive data samples from a variety of sources Discourse Analysis is the ideal core text for the discourse analysis course in applied linguistics English education and communication programs The Social Studies Teacher's Toolbox Elisabeth Johnson,Evelyn Ramos,2020-04-09 Social studies teachers will find classroom tested lessons and strategies that can be easily implemented in the classroom The Teacher s Toolbox series is an innovative research based resource providing teachers with instructional strategies for students of all levels and abilities Each book in the collection focuses on a specific content area Clear concise guidance enables teachers to quickly integrate low prep high value lessons and strategies in their middle school and high school classrooms Every strategy follows a practical how to format established by the series editors The Social Studies Teacher s Toolbox contains hundreds of student friendly classroom lessons and teaching strategies Clear and concise chapters fully aligned to Common Core Social Studies standards and National Council for the Social Studies standards cover the underlying research technology based options practical classroom use and modification of each high value lesson and strategy This book employs a hands on approach to help educators quickly learn and apply proven methods and techniques in their social studies courses Topics range from reading and writing in social studies and tools for analysis to conducting formative and summative assessments differentiating instruction motivating students incorporating social and emotional learning and culturally responsive teaching Easy to read content shows how and why social studies should be taught and how to make connections across history geography political science and beyond Designed to reduce instructor preparation time and increase relevance student engagement and comprehension this book Explains the usefulness application and potential drawbacks of each instructional strategy Provides fresh activities applicable to all classrooms Helps social studies teachers work with ELLs advanced students and students with learning differences Offers real world guidance for addressing current events while covering standards and working with textbooks The Social Studies Teacher s Toolbox is an invaluable source of real world lessons strategies and techniques for general education teachers and social studies specialists as well as resource specialists special education teachers elementary and secondary educators and teacher educators **Responsible Reproductive Choice in the 21st Century** Malcolm de Roubaix,2023-01-05 This book systematically traces the development significance and implications of female reproductive choice Paramount is the right to safe termination of pregnancy TOP In the USA these rights are under threat after the reversal of Roe v Wade 1973 confirming the eternally contested nature of the pro life pro choice standoff The approach is unique and from all angles historical social emotional and

legal South African experience is evaluated against a global backdrop Arguing from an ethics of responsibility the book presents a justified balanced rational and moderate position on the moral acceptability of TOP It proposes that the morality TOP be evaluated by balancing inherent foetal moral significance against contingent potentiality context and circumstance that may determine foetal development TOP is a choice a woman faces with each pregnancy It always has moral implications exclusive to the life of the woman So too do continued pregnancy and parenthood but these are of greater magnitude and duration 2012-2013 College Admissions Data Sourcebook Southeast Edition ,

Reviewing **Life Science Paper1 2013 September Grade12**: Unlocking the Spellbinding Force of Linguistics

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