

GRADE 12 LIFE SCIENCES PAPER 2 (VERSION 1)
TERMINOLOGY

60 MINUTES / 100 MARKS

Give the correct biological term for each of the following descriptions. Write only the term next to the question number (1.2.1 to 1.2.30) in your ANSWER BOOK.

- 1.1 The analysis of DNA samples to identify individuals or relationships between individuals
- 1.2 The structure holding two chromatids together in a chromosome
- 1.3 The structure in an animal cell that gives rise to spindle fibres during cell division
- 1.4 The sugar found in RNA
- 1.5 The process during which a DNA molecule makes an exact copy of itself
- 1.6 The theory that describes evolution as consisting of long periods of little or no change alternating with short periods of rapid change
- 1.7 The type of cell division that occurs in the production of gametes
- 1.8 Chromosome condition describing the presence of two sets of chromosomes in a cell
- 1.9 The 22 pairs of chromosomes in the human karyotype that is not associated with gender
- 1.10 The phase of meiosis where the two chromosomes of each homologous pair are pulled to the opposite pole
- 1.11 The shape of the twisted strands of DNA
- 1.12 The phase of protein synthesis during which information is copied from DNA to mRNA
- 1.13 The bonds between two nitrogenous bases
- 1.14 The process of making new DNA from existing DNA
- 1.15 A type of nucleic acid on which is located the anti-codon for protein synthesis
- 1.16 Chromosome condition of a cell which has only a single set of chromosomes
- 1.17 Alternate forms of a gene situated on corresponding positions of homologous chromosomes and influencing the same characteristic
- 1.18 Formation of a new species when a physical barrier has divided a population
- 1.19 The use of technology to change the genetic structure of an organism
- 1.20 The appearance of an organism because of its genetic make-up
- 1.21 The region of a chromosome where sister chromatids are attached to each other
- 1.22 The division of cytoplasm that occurs after a cell nucleus has divided
- 1.23 Changes in the structure of DNA that might be harmful or beneficial
- 1.24 Specific lengths of DNA which carry the codes for characteristics of organisms
- 1.25 The study of fossils
- 1.26 An explanation for something that has been observed in nature, and which can be supported by facts, laws and tested hypothesis
- 1.27 A diagram that shows possible evolutionary relationships between groups of organisms
- 1.28 Type of cell division during which the chromosome number does not change
- 1.29 The process which results in all the individuals of a particular species dying out
- 1.30 Organisms that are able to interbreed and produce fertile offspring

Grade12 Life Sciences Paper 2 Essays

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X-kit FET Grade 12 LIFE SCIENCE ,2008 **Education and Ethics in the Life Sciences** Brian Rappert,2010-06-01 At the start of the twenty first century warnings have been raised in some quarters about how by intent or by mishap advances in biotechnology and related fields could aid the spread of disease Science academics medical organisations governments security analysts and others are among those that have sought to raise concern EDUCATION AND ETHICS IN THE LIFE SCIENCES examines a variety of attempts to bring greater awareness to security concerns associated with the life sciences It identifies lessons from practical initiatives across a wide range of national contexts as well as more general reflections about education and ethics The eighteen contributors bring together perspectives from a diverse range of fields including politics virology sociology ethics security studies microbiology and medicine as well as their experiences in universities think tanks and government In offering their assessment about what must be done and by whom each chapter addresses a host of challenging practical and conceptual questions EDUCATION AND ETHICS IN THE LIFE SCIENCES will be of interest to those planning and undertaking training activities in other areas In asking how education and ethics are being made to matter in an emerging area of social unease it will also be of interest to those with more general concerns about professional conduct Resources in Education ,1999 **Language in Writing Instruction** María Estela Brisk,2020-09-22 Accessible and engaging this book offers a comfortable entry point to integrating language instruction in writing units in grades 3 8 A full understanding of language development is necessary for teaching writing in a successful and meaningful way Applying a Systemic Functional Linguistics SFL approach Mar a Brisk embraces an educator s perspective breaks down the challenges of teaching language for non linguists and demonstrates how teachers can help students express their ideas and create cohesive texts With a focus on the needs of all students including bilingual and English language learners Brisk addresses topics necessary for successful language instruction and moves beyond vocabulary and grammar to address meaning making and genre This book provides a wealth of tools and examples for practice and includes helpful instructional resources that teachers can return to time after time Moving from theory to practice this teacher friendly text is a vital resource for courses in language education programs in service teacher training seminars and for pre service and practicing English Language Arts ELA teachers who want to expand their teaching abilities and knowledge bases This book features a sample unit and a reference list of instructional resources **Publisher and Bookseller** ,1907 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series *The Bookseller* ,1892 *Bookseller* ,1874 Vols for 1871 76 1913 14 include an extra number The Christmas bookseller separately paged and not included in the consecutive numbering of the regular series Subject Guide to Books in Print ,1993 *Publishers' circular and booksellers' record* ,1883 Mainstream ,1990

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