

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 1.2.6) 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/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

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