

GRADE 10 LIFE SCIENCES JUNE EXAM

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 1.1.8) on your answer paper, for example 1.1.9 D.

1.1.1 Which of the following organelles is involved in transportation?

- A Lysosome
- B Centrosome
- C Ribosome
- D Golgi apparatus

1.1.2 The compound found **ONLY** in plant cells is...

- A water
- B glucose
- C glycogen
- D cellulose

1.1.3 All the interactions between biotic and abiotic factors in a region.

- A Ecosystem
- B Biome
- C Environment
- D Climate

1.1.4 Thabo wants to give his mom a pot with magnolias for her birthday. He knows that magnolias need soil with good water-holding capacity and nutrients. Which of the following should he use to fill his pot with?

- A Only small soil particles alone
- B Small soil particles with some added humus
- C Sandy soil with some added humus
- D Loamy soil with lots of gravel for drainage

1.1.5 What do we call the classification system where every organism has a dual name?

- A Taxonomy
- B Hierarchical system
- C Two-domain system
- D Binomial system

1.1.6 Radiometric dating is based on...

- A comparison between fossils found at the same site.
- B knowledge of geological time scale.
- C radioactive decay principles.
- D the rock layer in which the fossil was found

1.1.7 A scientist who studies fossils is known as a/an...

- A biologist.
- B anthropologist.
- C archaeologist.
- D palaeontologist.

1.1.8 Soil and rock, forming the upper layer of the Earth's surface is the...

- A lithosphere.
- B atmosphere.
- C hydrosphere.
- D biosphere.

(3x2=18)

1.2 Give the correct **BIOLOGICAL TERM** for each of the following descriptions. Write only the **TERM** next to the QUESTION NUMBER (1.2.1 to 1.2.10) in your answer book.

- 1.2.1 Vitamin directly responsible for the absorption of Calcium in the body.
- 1.2.2 Level of classification found after phylum.
- 1.2.3 Those organisms that are unable to manufacture their own food.
- 1.2.4 Plant species whose introduction and/or spread outside their natural habitat threaten biological diversity.
- 1.2.5 Death of all individuals of a species.
- 1.2.6 Organisms that do not have a distinct nucleus or enclosed structures.
- 1.2.7 The sorting and grouping of things according to similarities and differences.
- 1.2.8 The variety of life forms that occurs on earth.

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