



GRADE 10 LIFE SCIENCES MARCH TEST

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 (1.1.1-1.1.5) on your folio paper. Example 1.1.6: D.

On 10 learners conducted an investigation over a period of time every afternoon at noon to determine the wind speed at various altitudes.

Answer question 1.1.1- 1.1.3 using the above-mentioned statement.

- 1.1.1 Which of the following options would be the independent variable?
 A Wind speed
 B Wind altitude
 C Time of day
 D Direction of flow
- 1.1.2 Which of the following options would be considered the dependent variable?
 A Wind speed
 B Wind altitude
 C Time of day
 D Direction of flow
- 1.1.3 Which of the following options would be a fixed variable?
 A Wind speed
 B Wind altitude
 C Time of day
 D Direction of flow
- 1.1.4 The following is **NOT** an abiotic factor in the ecosystem of a grasshopper.
 A The air in the air
 B The temperature of the environment
 C The water in the soil
 D The speed of the wind in the air

- 1.1.5 Which of the following is the most appropriate example of a population?
 A All organisms in a specific region of the Kruger National Park
 B All lions in a 100 km² area
 C All lions in the Kruger National Park
 D All lions in a specific region of the Kruger National Park

[5x2=10]

- 1.2 Give the correct **BIOLOGICAL TERM** for each of the following statements. Write **ONLY** the TERM next to the QUESTION NUMBER (1.2.1-1.2.4).

- 1.2.1 *Study of all the organisms of an area together*
 1.2.2 *Study of the effect of biotic and abiotic factors on the distribution of organisms*
 1.2.3 *Study of the distribution of organisms*
 1.2.4 *Study of the distribution of organisms*

[4x1=4]

- 1.3 Indicate whether each of the statements in COLUMN I applies to A ONLY, B ONLY, BOTH A and B or NONE of the items in COLUMN II. Write A ONLY, B ONLY, BOTH A and B or NONE next to the QUESTION NUMBER (1.3.1-1.3.3).

	COLUMN I	COLUMN II
1.3.1	Location of the Savanna biome in South Africa	A. Savannah B. Desert
1.3.2	Climate refers to	A. Temperature B. Humidity
1.3.3	Sources that decrease carbon dioxide in the atmosphere	A. Photosynthesis B. Respiration

[3x2=6]

[TOTAL SECTION A = 20]

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