



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** (1.1.1-1.1.4) from your notebook. Example: 1.1.1-2.

On 10 January conducted an investigation over a period of time (only afternoon at times) to determine the wind speed at various altitudes.

Answer question 1.1.1-1.1.4 using the above-mentioned statement.

- 1.1.1 Which of the following options would be the independent variable?
- Wind speed
 - Altitude
 - The weather
 - Location of the
- 1.1.2 Which of the following options would be considered the dependent variable?
- Wind speed
 - Altitude
 - The weather
 - Location of the
- 1.1.3 Which of the following options would be a fixed variable?
- Wind speed
 - Altitude
 - The weather
 - Location of the
- 1.1.4 The following is **NOT** an abiotic factor in the ecosystem of a grasshopper.
- The climate
 - The grasshopper's food source
 - The grasshopper's habitat
 - The grasshopper's colour

- 1.1.5 Which of the following is the most appropriate example of a population?

- All organisms in a pond
- All the grasshoppers in a field
- All the grasshoppers in a field
- All the grasshoppers in a field

[2-10]

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

- 1.2.1 The study of the interactions between organisms and their environment.
- 1.2.2 The study of the structure and function of the body of an organism.
- 1.2.3 The study of the structure and function of the body of an organism.
- 1.2.4 The study of the structure and function of the body of an organism.

[2-10]

- 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. Climate B. Soil C. Water D. All of the above
1.3.2	Climate refers to	A. The weather B. The temperature C. The humidity D. All of the above
1.3.3	Stated that the wind speed is the same in the atmosphere	A. True B. False

[2-10]

TOTAL SECTION A = 20

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Roman Wölfel



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acid base titration difference between acid and base acids and bases definition an acid is any hydrogen containing substance that is capable of donating a proton hydrogen ion to another substance a base is a molecule or ion able to accept a hydrogen ion from an acid acidic substances are usually identified by their sour taste

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a binary acid is an acid that consists of hydrogen and one other element the most common binary acids contain a halogen the acid name begins with the prefix hydro followed by the base name of the anion followed by the suffix ic

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oct 18 2023 most of the acids are solid it has a sour taste they produce hydrogen after reacting with active metals like zinc magnesium aluminium or iron acids have a low ph value i e below 7 salts and water are produced when an acid reacts with base or alkalis most of the acids are solids

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arrhenius s definition of acids and bases the earliest definition of acids and bases is arrhenius s definition which states that an acid is a substance that forms hydrogen ions h when dissolved in water and a base is a substance that forms hydroxide ions oh when dissolved in water

10 1 acids properties and examples chemistry libretexts - May 20 2023

mar 24 2021 acids react with bases to produce a salt compound and water when equal moles of an acid and a base are combined the acid is neutralized by the base the products of this reaction are an ionic compound which is labeled as a salt and water

5 3 acids bases and neutralization reactions - Sep 12 2022

the reaction of an acid and a base is called a neutralization reaction although acids and bases have their own unique chemistries the acid and base cancel each other s chemistry to produce a rather innocuous substance water in fact the general reaction between an acid and a base is

14 2 acids properties and examples chemistry libretexts - Apr 19 2023

may 20 2018 acids react with bases to produce a salt compound and water when equal moles of an acid and a base are combined the acid is neutralized by the base the products of this reaction are an ionic compound which is labeled as a salt and water

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nov 13 2022 suggest simple tests you could carry out to determine if an unknown substance is an acid or a base state the chemical definitions of an acid and a base in terms of their behavior in water write the formula of the salt formed when a given acid and base are combined