

SCIENCE COORDINATE

0654 | Paper 2

2020 — 2024

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ANSWERS

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1 - (0654/21_Summer_2020_Q1) - B1. Characteristics Of Living Organisms

Which characteristic of living organisms is defined as the chemical reactions that break down nutrient molecules and release energy for metabolism?

- A excretion
- B nutrition
- C respiration
- D reproduction

2 - (0654/22_Summer_2020_Q1) - B1. Characteristics Of Living Organisms

Which characteristic of living things is described as the removal of toxic materials and substances in excess of requirements?

- A excretion
- B homeostasis
- C nutrition
- D respiration

3 - (0654/23_Summer_2020_Q1) - B1. Characteristics Of Living Organisms

A scientist is studying a living organism. She observes that it has the ability to remove the waste products of metabolism.

What characteristic of living organisms is being observed?

- A excretion
- B nutrition
- C respiration
- D reproduction

4 - (0654/21_Winter_2020_Q1) - B1. Characteristics Of Living Organisms

Which statement is the definition of nutrition?

- A break down of nutrient molecules and the release of energy for metabolism
- B maintenance of a constant internal environment
- C removal of the waste products of metabolism
- D taking in of materials for energy, growth and development

5 - (0654/22_Winter_2020_Q1) - B1. Characteristics Of Living Organisms

A plant is placed on a windowsill. The next day, it is found to have all of its leaves facing the light.

Which of the characteristics is this plant displaying?

- 1 a permanent increase in size and dry mass by an increase in cell number or cell size or both
- 2 an action by an organism or part of an organism causing a change of position or place
- 3 the ability to detect or sense stimuli in the internal or external environment and to make appropriate responses

A 3 only B 1 and 2 only C 2 and 3 only D 1, 2 and 3

6 - (0654/23_Winter_2020_Q1) - B1. Characteristics Of Living Organisms

What is **not** a characteristic of all living organisms?

- A excretion
- B growth
- C photosynthesis
- D sensitivity

7 - (0654/21_Summer_2021_Q1) - B1. Characteristics Of Living Organisms

What is respiration?

- A breakdown of food by enzymes in the alimentary canal
- B breathing to supply oxygen to cells
- C release of carbon dioxide from the lungs
- D release of energy for body activities

8 - (0654/21_Winter_2021_Q1) - B1. Characteristics Of Living Organisms

The list shows some requirements of living things.

- 1 light
- 2 carbon dioxide
- 3 water
- 4 mineral ions

What do plants need to make glucose?

A 1 and 2 only B 2 and 3 only C 3 and 4 D 1, 2 and 3

9 - (0654/22_Winter_2021_Q1) - B1. Characteristics Of Living Organisms

Which processes do green plants carry out?

- 1 detect stimuli and make appropriate responses
- 2 break down nutrient molecules to release energy for metabolism
- 3 take in carbon dioxide, water and ions for energy, growth and development

A 1 and 2 only B 1 and 3 only C 2 and 3 only D 1, 2 and 3

10 - (0654/23_Winter_2021_Q1) - B1. Characteristics Of Living Organisms

Ten woodlice were placed in a dish. Half of the dish was dark and the other half of the dish was light.

At the end of one hour, all of the woodlice had moved to the dark side of the dish.

Which characteristic of living organisms does this experiment demonstrate in woodlice?

- A respiration
- B excretion
- C nutrition
- D sensitivity

11 - (0654/21_Summer_2022_Q1) - B1. Characteristics Of Living Organisms

Which statement about one of the characteristics of living organisms is correct?

- A Excretion is the removal of excess substances and toxic materials.
- B Movement is the ability to detect and respond to changes in the environment.
- C Nutrition is the maintenance of a constant internal environment.
- D Respiration is the manufacture of nutrients from raw materials.

12 - (0654/22_Summer_2022_Q1) - B1. Characteristics Of Living Organisms

Which statement about the characteristics of living organisms is correct?

- A Excretion is the chemical reactions in cells that release energy.
- B Nutrition is the taking in of materials for energy, growth and development.
- C Respiration is the process that makes more of the same kind.
- D Sensitivity is the removal of toxic materials and excess substances.

ANSWERS

1 - (0654/21_Summer_2020_Q1) - B1. Characteristics Of Living Organisms

C

2 - (0654/22_Summer_2020_Q1) - B1. Characteristics Of Living Organisms

A

3 - (0654/23_Summer_2020_Q1) - B1. Characteristics Of Living Organisms

A

4 - (0654/21_Winter_2020_Q1) - B1. Characteristics Of Living Organisms

D

5 - (0654/22_Winter_2020_Q1) - B1. Characteristics Of Living Organisms

A

6 - (0654/23_Winter_2020_Q1) - B1. Characteristics Of Living Organisms

C

7 - (0654/21_Summer_2021_Q1) - B1. Characteristics Of Living Organisms

D

8 - (0654/21_Winter_2021_Q1) - B1. Characteristics Of Living Organisms

D

9 - (0654/22_Winter_2021_Q1) - B1. Characteristics Of Living Organisms

D

10 - (0654/23_Winter_2021_Q1) - B1. Characteristics Of Living Organisms

D