IGCSE Cambridge Topical Past Papers

SCIENCE COORDINATE

0654 | Paper 2

2017 - 2023

Chapter 1- BIOLOGY Page 1

CH 1 - B1. Characteristics Of Living Organisms CH 7 - B7. Transport

CH 2 - B2. Cells CH 8 - B8. Gas Exchange And Respiration

CH 3 - B3. Biological Molecules CH 9 - B9. Coordination And Response

CH 4 - B4. Enzymes CH 10 - B10. Reproduction

CH 5 - B5. Plant Nutrition CH 11 - B11. Inheritance

CH 6 - B6. Animal Nutrition CH 12 - B12. Organisms And Their Environment

CH 13 - B13. Human Influences On Ecosystems

Chapter 2 - CHEMISTRY Page 150

CH 14 - C1. The Particulate Nature Of Matter CH 21 - C8. Acids, Bases And Salts

CH 15 - C2. Experimental Techniques CH 22 - C9. The Periodic Table

CH 16 - C3. Atoms, Elements And Compounds CH 23 - C10. Metals

CH 17 - C4. Stoichiometry CH 24 - C11. Air And Water

CH 18 - C5. Electricity And Chemistry CH 25 - C12. Sulfur

CH 19 - C6. Energy Changes In Chemical Reactions CH 26 - C13. Carbonates

CH 20 - C7. Chemical Reactions CH 27 - C14. Organic Chemistry

Chapter 3 - PHYSICS Page 302

CH 28 - P1. Motion

CH 29 - P2. Work, Energy And Power

CH 30 - P3. Thermal Physics CH 33 - P6. Electric Circuits

CH 31 - P4. Properties Of Waves, Including Light And Sound CH 34 - P7. Electromagnetic Effects

CH 32 - P5. Electricity And Magnetism CH 35 - P8. Atomic Physics

ANSWERS



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TOPICS	P2	P4	P6
BIOLOGY	546	183	86
CHEMISTRY	587	173	88
PHYSICS	546	168	86

COORDINATE SCIENCE 0654

TOPICAL PAST PAPER WORKSHEETS

2017 - 2023 | Questions + Mark scheme

AVAILABLE PAPERS

P2 P4 525 Questions **P6**

1680 Questions

260 Questions

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1 - (0654/22_Summer_2017_Q3) - B1. Characteristics Of Living Organisms

Which characteristic of living organisms involves chemical reactions that break down nutrient molecules to release energy?

- A excretion
- **B** nutrition
- C reproduction
- D respiration
- 2 (0654/23_Summer_2017_Q13) B1. Characteristics Of Living Organisms

What may be defined as 'an action by an organism or part of an organism causing a change of position or place'?

- A growth
- B movement
- C reproduction
- D sensitivity
- **3** (0654/21_Winter_2017_Q2) B1. Characteristics Of Living Organisms

What is excretion?

- A breakdown of materials in kidney cells
- B chemical reactions in liver cells
- C removal of undigested food from the gut
- D removal of waste products
- 4 (0654/21_Summer_2018_Q1) B1. Characteristics Of Living Organisms

Which rows correctly match characteristics of living things with their descriptions?

	characteristic	description	
1	excretion	removing the waste products of metabolism	
2	growth	making more living things of the same type	
3	nutrition	taking in or producing food	
4	respiration	releasing energy from food	

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

5 - (0654/21_Winter_2018_Q1) - B1. Characteristics Of Living Organisms

Which is a characteristic of all living things?

- A a heart
- B breathing
- C excretion
- D sexual reproduction
- **6** (0654/23_Winter_2018_Q1) B1. Characteristics Of Living Organisms

One way to test for microscopic life in soil is to see if carbon dioxide is released.

Which characteristic of living things is being tested?

- A growth
- **B** nutrition
- C reproduction
- D respiration
- 7 (0654/21_Summer_2019_Q1) B1. Characteristics Of Living Organisms

Which characteristic of living organisms is correctly matched to the description?

	characteristic	description
Α	excretion	the removal from organisms of the waste products of metabolism
В	nutrition	the chemical reactions in cells that break down nutrient molecules and release energy for metabolism
С	respiration	the taking in of materials for energy, growth and development
D	sensitivity	the action by an organism or part of an organism causing a change of position or place

8 - (0654/21_Winter_2019_Q1) - B1. Characteristics Of Living Organisms

Which process do all living organisms carry out?

- A asexual reproduction
- B excretion
- C ingestion
- D photosynthesis

9 - (0654/22_Winter_2019_Q1) - B1. Characteristics Of Living Organisms

What do plants need for their nutrition?

- A carbon dioxide, ions, organic compounds and light
- B carbon dioxide, ions, organic compounds and water
- C carbon dioxide, ions, light and water
- D carbon dioxide, organic compounds, light and water
- 10 (0654/23_Winter_2019_Q1) B1. Characteristics Of Living Organisms

What is a plant demonstrating when carbon dioxide is released from its cells?

- A assimilation
- B egestion
- C excretion
- D nutrition
- 11 (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
- 12 (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
- 13 (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

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ANSWERS

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1 - (0654/22_Summer_2017_Q3) - B1. Characteristics Of Living Organisms

D

2 - (0654/23_Summer_2017_Q13) - B1. Characteristics Of Living Organisms

В

3 - (0654/21_Winter_2017_Q2) - B1. Characteristics Of Living Organisms

D

4 - (0654/21_Summer_2018_Q1) - B1. Characteristics Of Living Organisms

В

5 - (0654/21_Winter_2018_Q1) - B1. Characteristics Of Living Organisms

 \mathbf{C}

6 - (0654/23_Winter_2018_Q1) - B1. Characteristics Of Living Organisms

D

7 - (0654/21_Summer_2019_Q1) - B1. Characteristics Of Living Organisms

A

8 - (0654/21_Winter_2019_Q1) - B1. Characteristics Of Living Organisms

В

9 - (0654/22_Winter_2019_Q1) - B1. Characteristics Of Living Organisms

 \mathbf{C}

10 - (0654/23_Winter_2019_Q1) - B1. Characteristics Of Living Organisms

 \mathbf{C}