AQA GCSE Combined Science - Trilogy | 8464

SPECIFICATION POINT 4.3.1.4

Fungal diseases

Past-paper questions

Tier	**Foundation**
Question groups	**1**
Available paper years	**2022–2022**

Using this booklet

1. Answer the questions in order and show your working.
2. Original question numbers and marks are retained.
3. Print at actual size (100%) for measuring questions.
4. Use the companion answer booklet to check your work.

Name: _____ **Date:** _____

Whole questions are retained for context, so some parts assess other specification points. Current and legacy sources are labelled. Continue on extra paper if needed.

4.3.1.4 Fungal diseases

Question 01

June 2022 | 8464/B/1F | Original Q3

0 3 This question is about disease.

Rose black spot is a disease where black spots develop on the leaves of rose plants.

0 3 . 1 What type of pathogen causes rose black spot disease?

[1 mark]

Tick (✓) **one** box.

- Bacterium ☐
- Fungus ☐
- Protist ☐
- Virus ☐

0 3 . 2 Plants with rose black spot disease often have yellow leaves.

Suggest **one** reason why the leaves are yellow instead of green.

[1 mark]

0 3 . 3 Explain why plants with yellow leaves grow slowly.

[2 marks]

4.3.1.4 Fungal diseases

Question 01 · continued

0 3 . 4 The spread of rose black spot can be controlled using different methods.

Draw **one** line from each method of control to the explanation of how it works.

[2 marks]

Method of control	Explanation
	Creates a barrier to the movement of pathogens
Remove and burn infected leaves	
	Pathogens are killed
	Reduces the chance of pathogens being spread by water droplets
Water the roots of the plant only, **not** the leaves	
	Reduces the temperature so pathogens reproduce less

Question 3 continues on the next page

4.3.1.4 Fungal diseases

Question 01 · continued

0 3 . 5 Tobacco plants may become infected with a pathogen called TMV.

What type of pathogen is TMV?

[1 mark]

Tick (✓) **one** box.

- Bacterium ☐
- Fungus ☐
- Protist ☐
- Virus ☐

Malaria is a disease caused by a protist.

0 3 . 6 How is the malaria pathogen transferred to humans?

[1 mark]

0 3 . 7 How can the spread of malaria pathogens be reduced?

[1 mark]

Tick (✓) **one** box.

- Avoid sexual contact ☐
- Cook food thoroughly ☐
- Drain water from swamps ☐
- Use a tissue when sneezing ☐

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