AQA GCSE Combined Science - Trilogy | 8464

SPECIFICATION POINT 4.3.1.5

Protist diseases

Past-paper questions

Tier	**Foundation**
Question groups	**2**
Available paper years	**2019–2022**

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.

4.3.1.5 Protist diseases

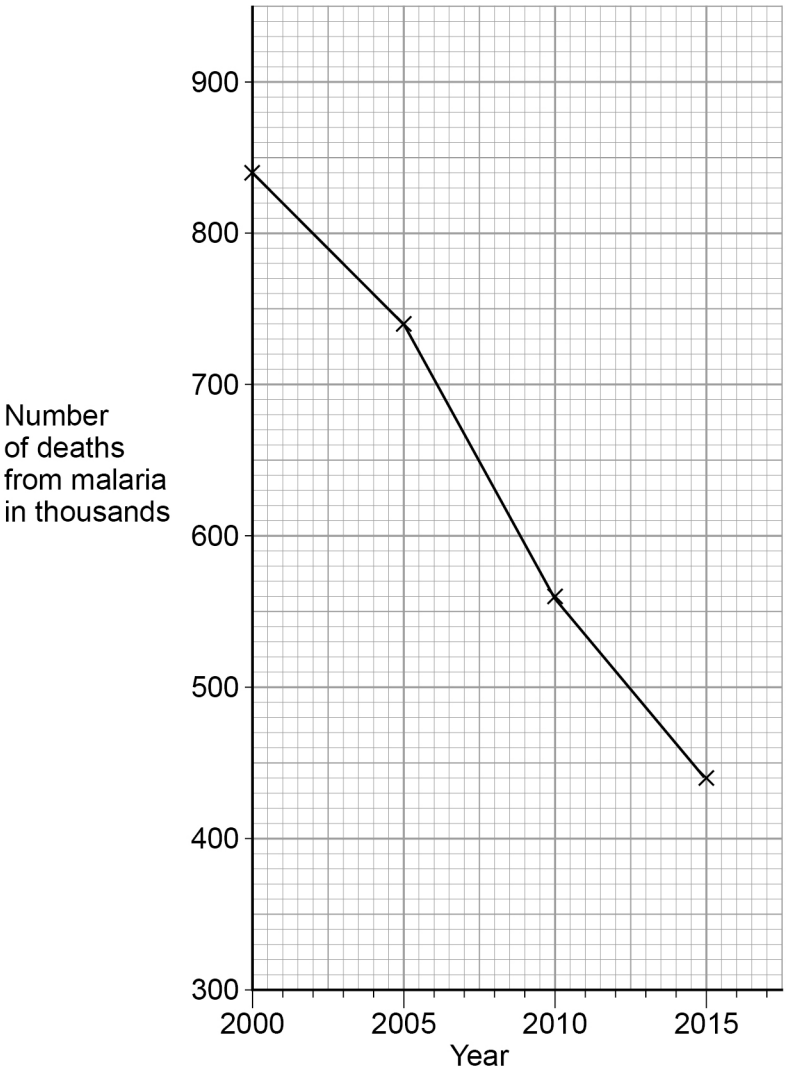
Question 01

June 2019 | 8464/B/1F | Original Q5

0 5 Malaria is a disease transmitted by mosquitos.

Figure 9 shows information about the number of deaths from malaria.

Figure 9



0 5 . 1 Calculate the decrease in the number of deaths between 2000 and 2015.

[2 marks]

Decrease in number of deaths = _____

4.3.1.5 Protist diseases

Question 01 · continued

0 5 . 2 Which time period shows the greatest decrease in the number of deaths?

[1 mark]

Tick (✓) **one** box.

2000 to 2005 ☐

2005 to 2010 ☐

2010 to 2015 ☐

0 5 . 3 A student looked at **Figure 9** and concluded that there were 800 000 deaths from malaria in 2002.

Suggest **one** reason why this conclusion might **not** be correct.

[1 mark]

_____

_____

0 5 . 4 What type of pathogen causes malaria?

[1 mark]

Tick (✓) **one** box.

Bacterium ☐

Fungus ☐

Protist ☐

Virus ☐

4.3.1.5 Protist diseases

Question 01 · continued

0 5 . 5 Scientists are developing a vaccine against malaria.

Suggest how a vaccine against malaria could reduce the spread of the disease.

[2 marks]

0 5 . 6 Give **one** way of controlling the spread of malaria.

Do **not** refer to a vaccine in your answer.

[1 mark]

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4.3.1.5 Protist diseases

Question 02

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]

4.3.1.5 Protist diseases

Question 02 · 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

4.3.1.5 Protist diseases

Question 02 · continued June 2022 | 8464/B/1F | Original Q3

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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