



QUESTION WORKBOOK

Plant disease and plant defences

Pathogens, disease and immunity · Unit B11

AQA not examined as a topic · OCR A 4.1.1, 5.1.5 · Edexcel A not examined as a topic
CAIE 15.2

7 questions · 25 marks

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SECTION A · Short, 1 to 2 marks**A1**

PDP-Q7

State the type of pathogen that causes ring rot of potatoes, and state how tobacco mosaic virus travels from plant to plant. [2]

SECTION B · Standard, 3 to 5 marks**B1**

PDP-Q1

A grower has ring rot in one field of potatoes and mosaic mottling in a glasshouse of tomatoes nearby. Suggest what should be done in each case, and suggest why no treatment can be offered to the infected plants themselves. [5]

B2

PDP-Q2

Describe how a plant contains an infection once a pathogen has entered a leaf, naming the two materials it deposits. [4]

B3 Outline the defences a plant uses against herbivores, referring to alkaloids, tannins and volatile signals in your answer. [4]
PDP-Q3

B4 Explain why a Venus flytrap closes only after two touches within about thirty seconds, and explain why about five action potentials are needed before it begins to digest. [4]
PDP-Q4

B5 Compare the defences a plant has against a pathogen with the defences a mammal has. [3]
PDP-Q5

B6 Explain why a plant can secrete a chitinase without digesting its own tissues, and name one plant compound that acts against bacteria. [3]
PDP-Q6

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