

GCSE Biology A (Gateway)

J247/04 Biology A B4-B6 and B7 (Higher Tier)

Question Set: 18

- 1** Two farmers grow barley in their fields.
They both have a problem with barley powdery mildew infecting their crops.
- (a)** Powdery mildew is caused by a fungus.
Describe how fungal infections can spread and how they enter plant leaves. **[3]**
- (b)** The farmers want to prevent their crops from getting powdery mildew.
- (i)** Explain how burning plants after the barley has been harvested can protect the crops. **[1]**
- (ii)** Explain how growing barley in the fields one year, then wheat the next year can protect the crops. **[2]**
- (c)** The farmers test two different fungicides.
They each grow barley in one of their fields. Each farmer sprays a different fungicide on their field. They then compare the crop yield in the two different fields.
How could you improve the farmers' experiment?
Explain your answer. **[2]**

Total Marks for Question Set 18: 8

OCR

Oxford Cambridge and RSA

Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact The OCR Copyright Team, The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge