

BIOLOGY

Control, Genomes and Environment

F215 Monday 13 June 2011 Afternoon

Unofficial Mark Scheme.

Please note that this is not a comprehensive mark scheme. OCR will probably have many other key points so do not worry if you wrote different points to the ones given here.

If this scheme is useful to you please show your appreciation by visiting my Google Blog (<http://cambridgeacademic.blogspot.com/>) and clicking on an advert or two. Cheers.

1(i) Describe the steps that must occur for plant protein to be converted to animal protein.
[3 marks]

Plants are eaten/ingested by animals.
Digested/broken down into amino-acids.
Amino-acids absorbed by the animal.
Amino-acids used in translation to make animal proteins.

(ii) List the processes that contribute to B in the meadow where sheep are grazed.
[2 marks]

Death/decay (Plants and animals).
Excretion (Animals).
Urination (Animals).

(iii) Name the bacteria that carry out processes C and D, and explain the significance for the growth of plants.
[3 marks]

C = Nitrosomonas (incorrect spelling in Heinemann OCR book Nitrosomonass)
D = Nitrobacter
Plants need nitrates to make DNA and amino-acids.
Nitrites are toxic to plants.

(iv) Why will the soil nitrate concentration decrease in the cabbage field if it is used to repeatedly grow cabbages every year.
[3 marks]

Cabbages harvested each year so very little plant protein returned to the humus/soil by decomposition of dead plant material (B).

No animals = no waste material to contribute to humus/soil (B).

14 Ocr Bio F215 Paper

Roman Wölfel



14 Ocr Bio F215 Paper:

OCR A2 Biology Student Unit Guide: Unit F215 Control, Genomes and Environment Richard Fosbery, 2010-02-26
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OCR A2 Biology Unit F215, . Control, Genomes and Environment Richard Fosbery, 2012-08-01 Perfect for revision these guides explain the unit requirements summarise the content and include specimen questions with graded answers Each full colour New Edition Student Unit Guide provides ideal preparation for your unit exam Feel confident you understand the unit each guide comprehensively covers the unit content and includes topic summaries knowledge check questions and a reference index Get to grips with the exam requirements the specific skills on which you will be tested are explored and explained Analyse exam style questions graded student responses will help you focus on areas where you can improve your exam technique and performance

My Revision Notes: OCR A Level Biology A Frank Sochacki, 2017-01-16 Exam Board OCR Level A Level Subject Biology First Teaching September 2015 First Exam Summer 2016 With My Revision Notes OCR A Level Biology A you can Manage your own revision with step by step support from experienced teacher and examiner Frank Sochacki Apply biological terms accurately with the help of definitions and key words Plan and pace your revision with the revision planner Test understanding with questions throughout the book Get exam ready with last minute quick quizzes available on the Hodder Education website

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