

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).

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Jiyuan Zhang



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