



General Certificate of Secondary Education

Centre Number

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Candidate Number

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Double Award Science: Biology

Unit B1
Foundation Tier



[GDW11]

GDW11

Assessment

TIME

1 hour.

Assessment Level of Control:

Tick the relevant box (✓)

Controlled Conditions	
Other	

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

You must answer the questions in the spaces provided.

Do not write outside the boxed area on each page or on blank pages.

Complete in black ink only. **Do not write with a gel pen.**

Answer **all seven** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 60.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

Quality of written communication will be assessed in Question **6(a)**.



(b) Name processes **B**, **C** and **D**.

B _____

C _____

D _____

[3]

(c) Process **E** is respiration.

(i) Name the biological molecule, used in respiration, that contains carbon.

[1]

(ii) Name the gas needed for aerobic respiration.

[1]

[Turn over



(i) Give the number of trophic levels in this food web.

[1]

(ii) Use the food web to name the **three** species that feed on the same secondary consumer.
Name this secondary consumer.

Secondary consumer _____

Species 1 _____

Species 2 _____

Species 3 _____ [2]

(iii) Use the food web to describe and explain what you would expect to happen to the number of pine martens if the numbers of shoots and buds decreased.

Description _____

Explanation _____

_____ [3]

(iv) Use the food web to give **one** predator of the capercaillie.

[1]

[Turn over



(b) In 2011, the population of capercaillie in Scotland was 1285.
In 2017, the population of capercaillie in Scotland was 1114.

- (i) Calculate the percentage (%) decrease in the capercaillie population over this period.

Show your working.

Give your answer to **two** decimal places.

_____ % [3]

- (ii) Suggest **two** reasons for the decrease in the capercaillie population.

1. _____

2. _____ [2]

THIS IS THE END OF THE QUESTION PAPER





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For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	

Total Marks	
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Examiner Number

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