

Write your name here	
Surname	Other names
Edexcel Principal Learning	Centre Number
	Candidate Number
Environmental and Land-based Studies Level 2 Unit 5: Plants and Animals and their Role in Society	
Thursday 10 June 2010 – Morning Time: 1 hour	Paper Reference ES205/01
You do not need any other materials.	Total Marks

Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided
– *there may be more space than you need.*

Information

- The total mark for this paper is 50.
- The marks for **each** question are shown in brackets
– *use this as a guide as to how much time to spend on each question.*

Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

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1 Figure 1 is a drawing of a typical British woodland.

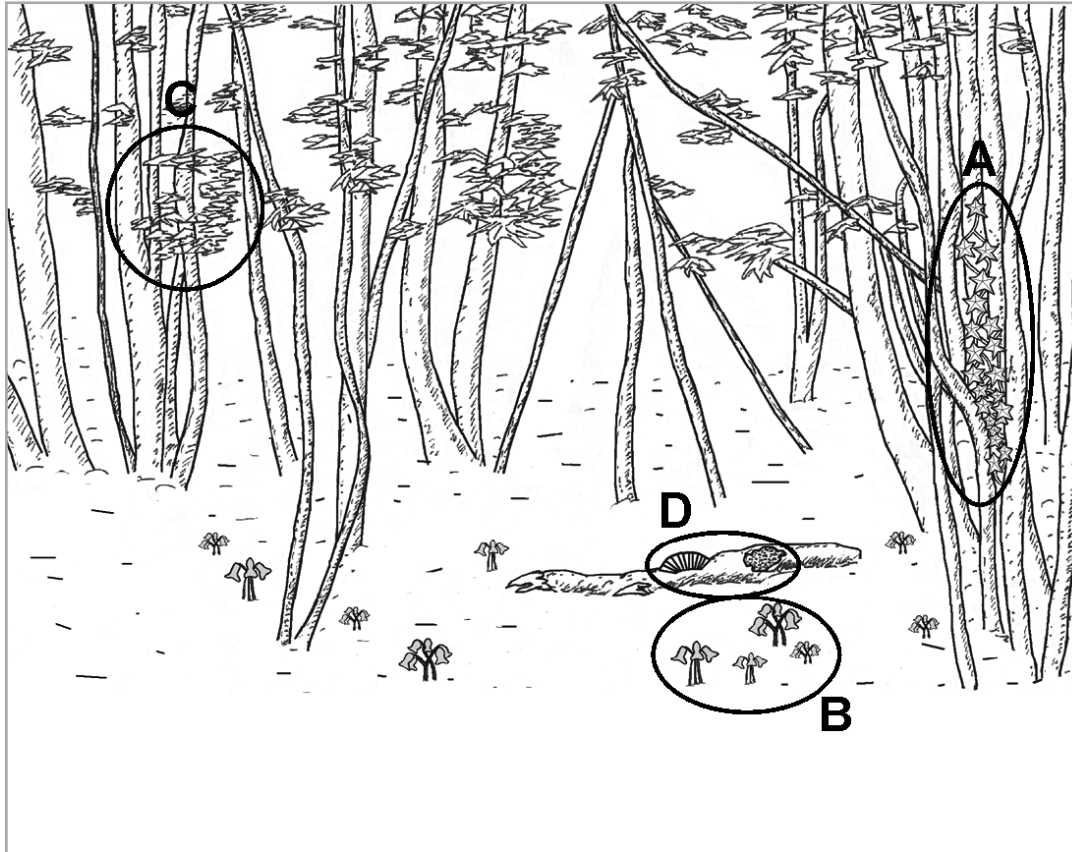


Figure 1

(a) Complete the description below of the woodland plants shown in Figure 1. Use **two** of the words from the box below.

(2)

evergreen decomposing photosynthesis deciduous

"Plant **A** is ivy. It has waxy, dark green leaves to help
in winter when there is little sunlight. Plant **B** are bluebells which have to flower
in spring before the summer canopy of leaves blocks out the sunlight. Plant **C**
hazel, sheds its leaves in winter. Plant **D** are fungi and mosses which take their
nutrients by vegetation."



(b) Plants A to D can be classified using a matrix (table). Complete the table below by putting each plant, A to D, in its correct box.

(2)

	DECIDUOUS	EVERGREEN
Has seeds		
Has no seeds		






(Total for Question 1 = 4 marks)



2 A pet shop has been closed down because it was mistreating the animals it was selling. An animal charity is looking for new homes for the animals.

(a) Put a cross in the box that shows the **most** suitable location for each animal. There can only be **one cross per column**. The first one has been done for you.

(4)

	Farm (tourist attraction)	Sports location	Family home	Medical research centre	Zoo
 Frog	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
 Pig	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 Parrot	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 Greyhound	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
 Alligator	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

(b) Choose **two** of the animals shown above. State **one** characteristic of the animal and **one** characteristic of the location you have chosen that makes your choice suitable.

(4)

Animal 1:

Animal characteristic:

.....

Location characteristic:

.....



Animal 2:

Animal characteristic:

Location characteristic:

(Total for Question 2 = 8 marks)



3 Study Figures 2(a) and 2(b). Figure 2(a) shows the land use for Hidenough Farm, and Figure 2(b) shows the approximate average income per hectare for UK farms in 2008.

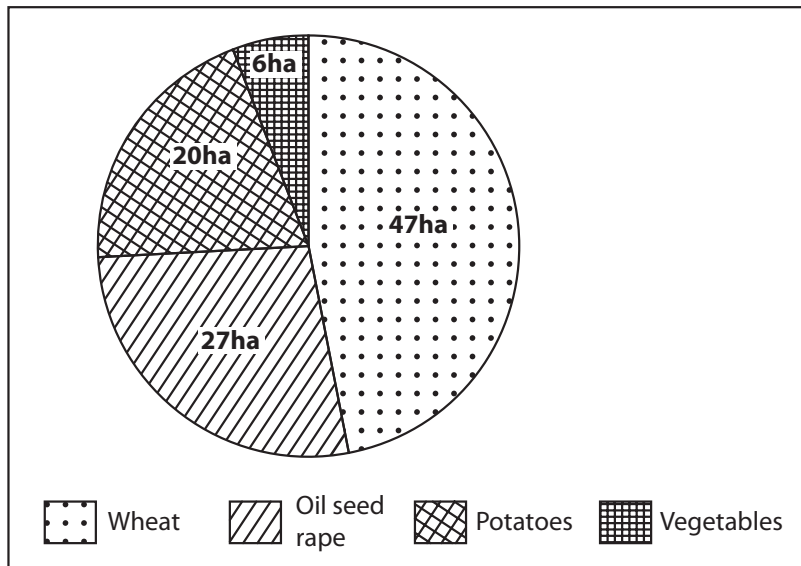


Figure 2(a) Hidenough Farm land use.
Size 100 hectares.

Wheat	£1 000
Oil seed rape	£1 000
Vegetables	£11 000
Potatoes	£5 200

Figure 2(b) Average crop income per hectare for UK farms, 2008

(a) Which crop provided the most income for Hidenough Farm?

(1)

(b) How could Hidenough Farm improve the quality of its vegetable crops by using a form of protected cropping?

(2)



Study Figure 2(c) which shows possible ways in which Hidenough Farm could diversify in the future.

	Commercial plant production		Leisure and tourism	
Possible activities	Christmas tree production	Flowers	Golf course	Ornamental garden

Figure 2(c) Possible new activities (diversification) for Hidenough Farm.

- (c) (i) Choose **one** commercial plant production activity.
Name **one** appropriate plant species, and state how its characteristics make it suitable for that activity.

(1)

Activity: Plant species:

Characteristics:

(3)

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- (ii) Choose **one** leisure and tourism activity.
Name **one** appropriate plant species, and state how its characteristics make it suitable for that activity.

(1)

Activity: Plant species:

Characteristics:

(3)

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(Total for Question 3 = 11 marks)



4 Study Figure 3 which shows an intensive chicken (broiler) farm.

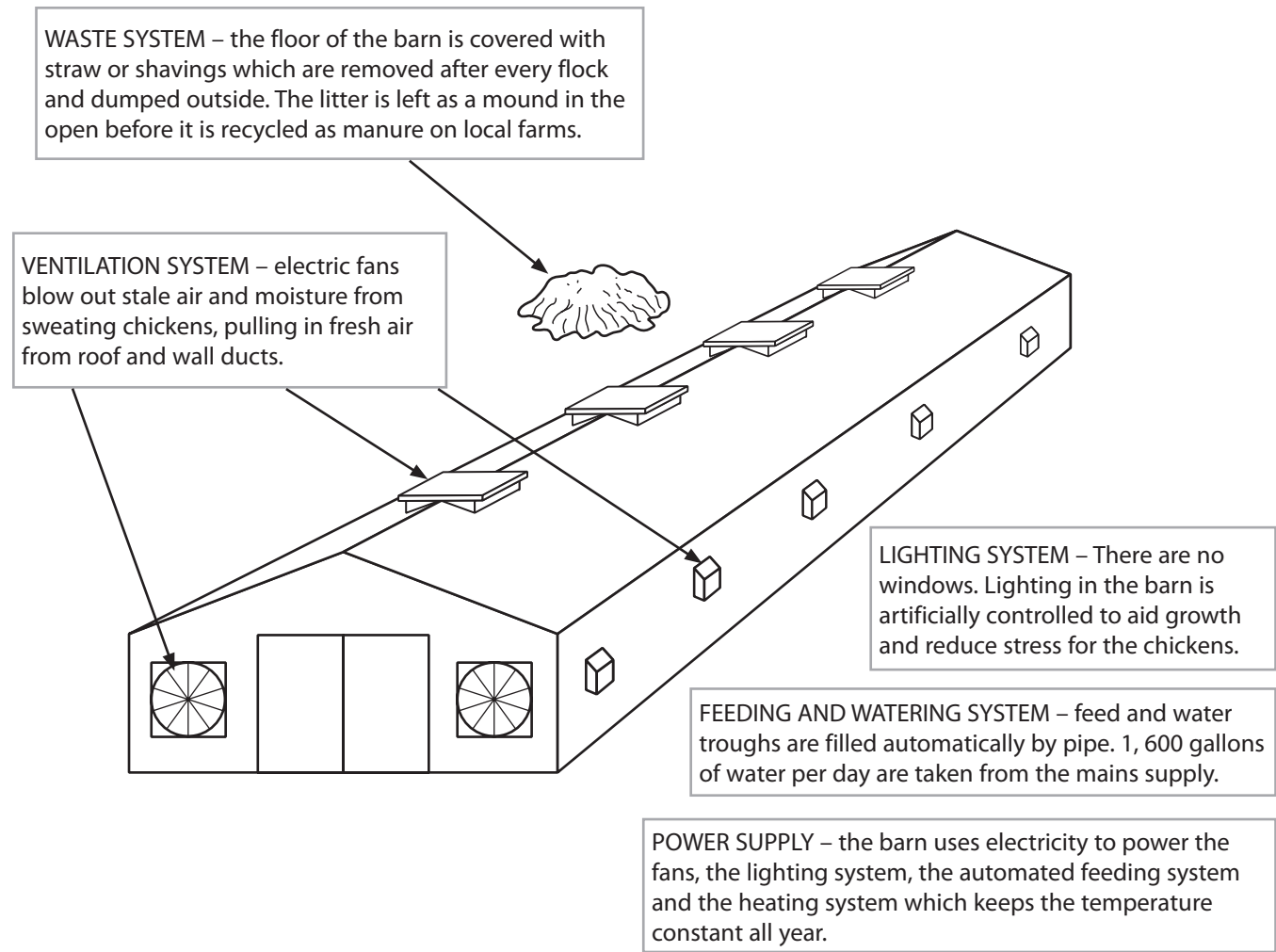


Figure 3

(a) Describe the effects of this chicken farm on the environment.

(4)

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(b) TV celebrity chefs have been promoting "natural, free range chickens" and sales of these have increased. If you were the manager of the farm shown in Figure 3 explain your responsibilities in deciding how the chickens are reared.

(5)

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(Total for Question 4 = 9 marks)



5 Study Figures 4(a) and 4(b). Figure 4(a) is a photograph of a coastal area, and Figure 4(b) is a sketch map of Figure 4(a).

A developer has applied for permission to build a caravan park in this area.



Figure 4(a)

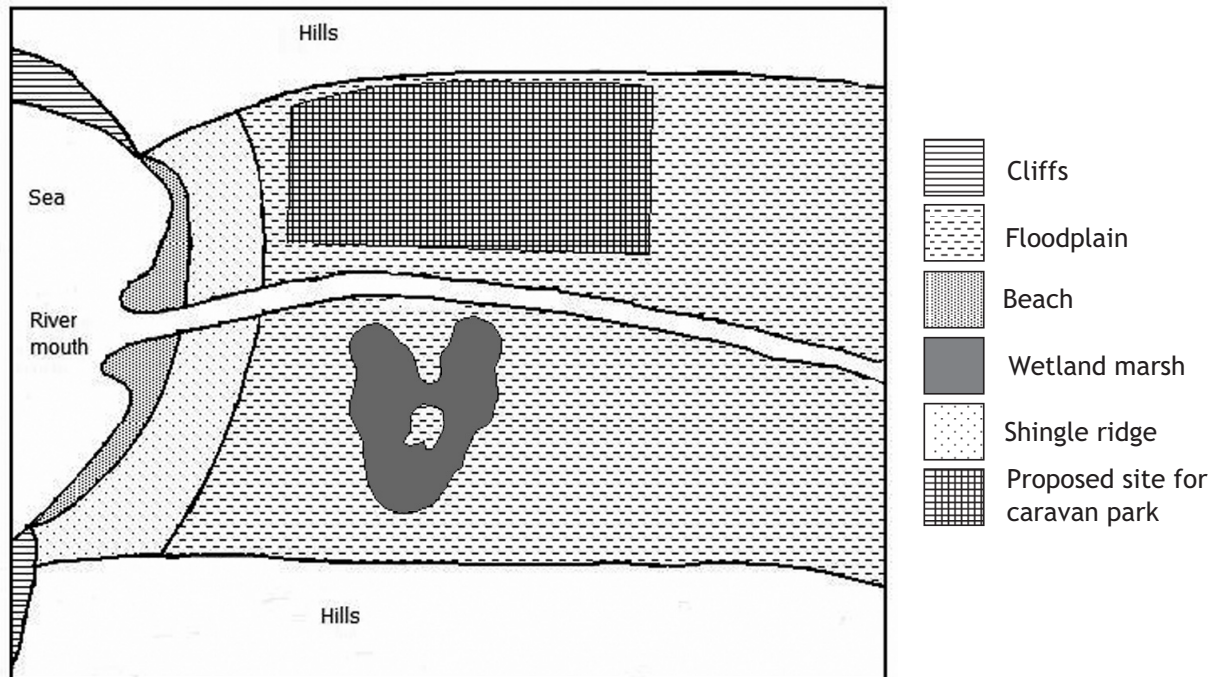


Figure 4(b) Sketch map of Figure 4(a)



(a) Describe **one** technique which could be used to measure the environmental impact of the caravan park on this coastline.

(2)

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(b) Identify **two** main risks involved in carrying out this technique.

(2)

1

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2

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(c) Planning permission was only granted if the developer included conservation practices to reduce environmental impact.

State **one** conservation practice the developer could include and explain how it might benefit both the caravan park and the local community.

(4)

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(Total for Question 5 = 8 marks)



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