

Write your name here

Surname

Other names

**Edexcel
Principal Learning**

Centre Number

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Candidate Number

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Environmental and Land-based Studies

Level 1

Unit 1: The Natural Environment

Friday 1 June 2012 – Morning

Time: 1 hour

Paper Reference

ES101/01

You must have:

Insert (enclosed)

Total Marks

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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 40.
- 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.

Turn over ►

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PEARSON

Answer ALL questions. Write your answers in the space provided.

1 Look at Figure 1(a) in the insert. It shows a dairy farm in a lowland area in the Peak District in England.

(a) Complete the sentences which describe the lowland area in the photograph.

Use some of the words in the box.

The first answer is completed for you.

hedgerow	wood	field
track	farm	cottages

(4)

At A there are **cottages**

At B is a

At C is a

At D is a

At E is a

(b) The farm is a dairy farm with over 100 cows.

Name **two** other animals the farmer might sell at market.

(2)

1

2



(c) Study Figure 1(b). It shows some wild animals that could be found in the lowland area shown in Figure 1(a).



Figure 1(b)

Complete the table below to identify the animals in Figure 1(b).

The first answer has been done for you.

(3)

Letter of photograph	Name of animal in the photograph
A	deer
B	
C	
D	



(d) Study Figure 1(c) which shows a food web for the lowland area shown in Figure 1(a).

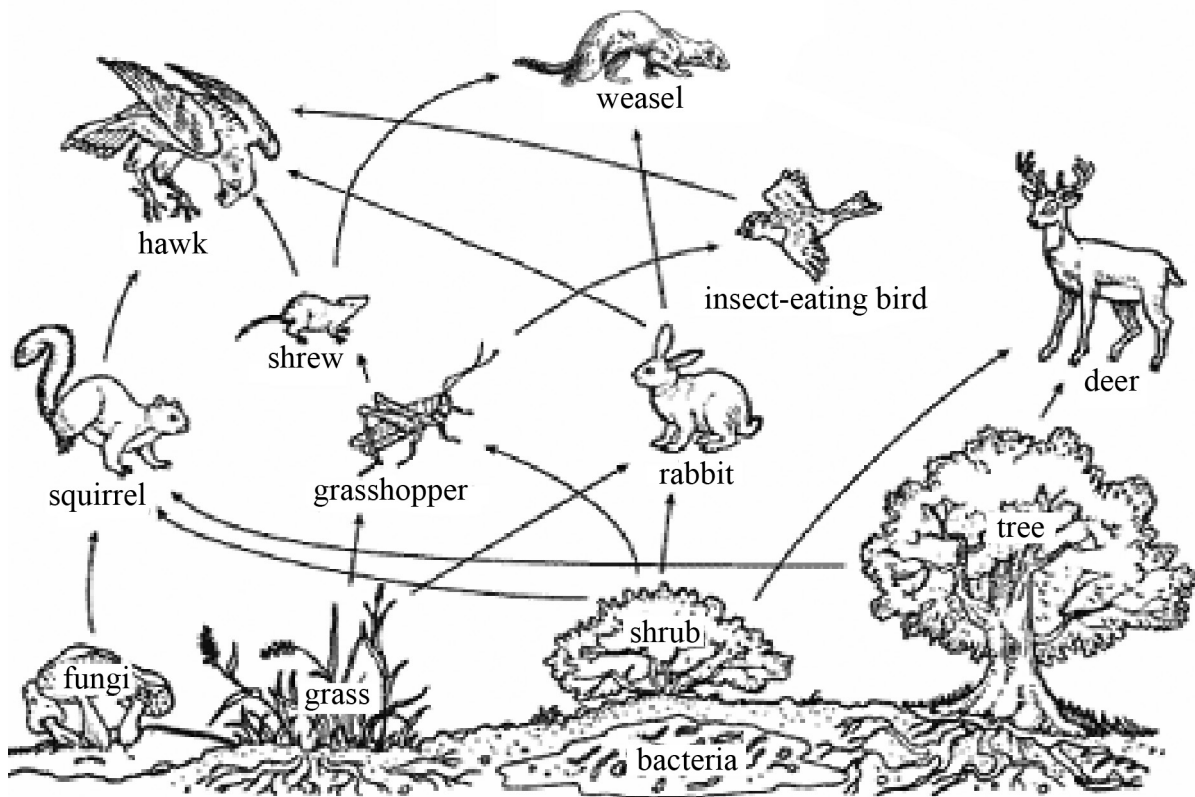


Figure 1(c)

If the rabbit population was removed from this habitat, how would this affect the food web?

(3)

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(Total for Question 1 = 12 marks)



2 The owner of the farm in Figure 1(a) needs to know about the weather in this lowland area.

(a) Look at Figure 2(a). It shows the average monthly temperature for this lowland area.

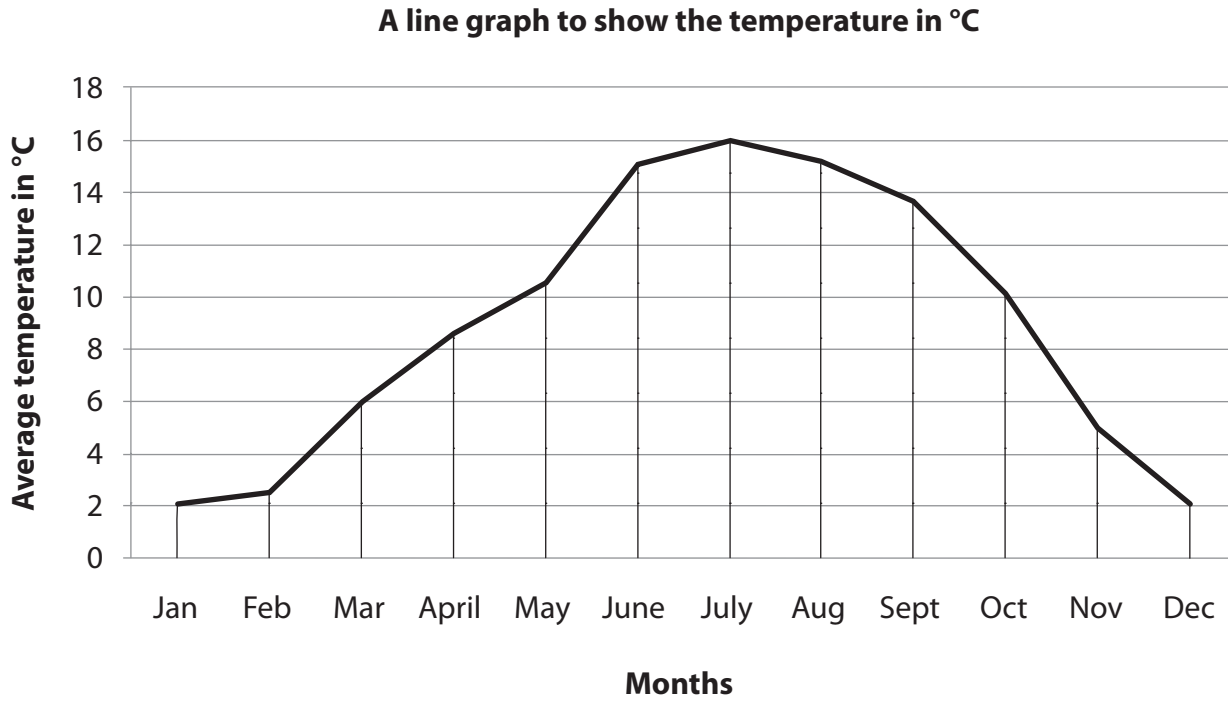


Figure 2(a)

(i) What was the average monthly temperature in November?

(1)

..... °C

(ii) The monthly temperature range is the difference between the highest monthly temperature and the lowest monthly temperature over the year.

What was the monthly temperature range?

(1)

.....

.....



(b) Look at Figure 2(b). It shows the monthly rainfall for this lowland area.

A bar graph to show the rainfall in mms

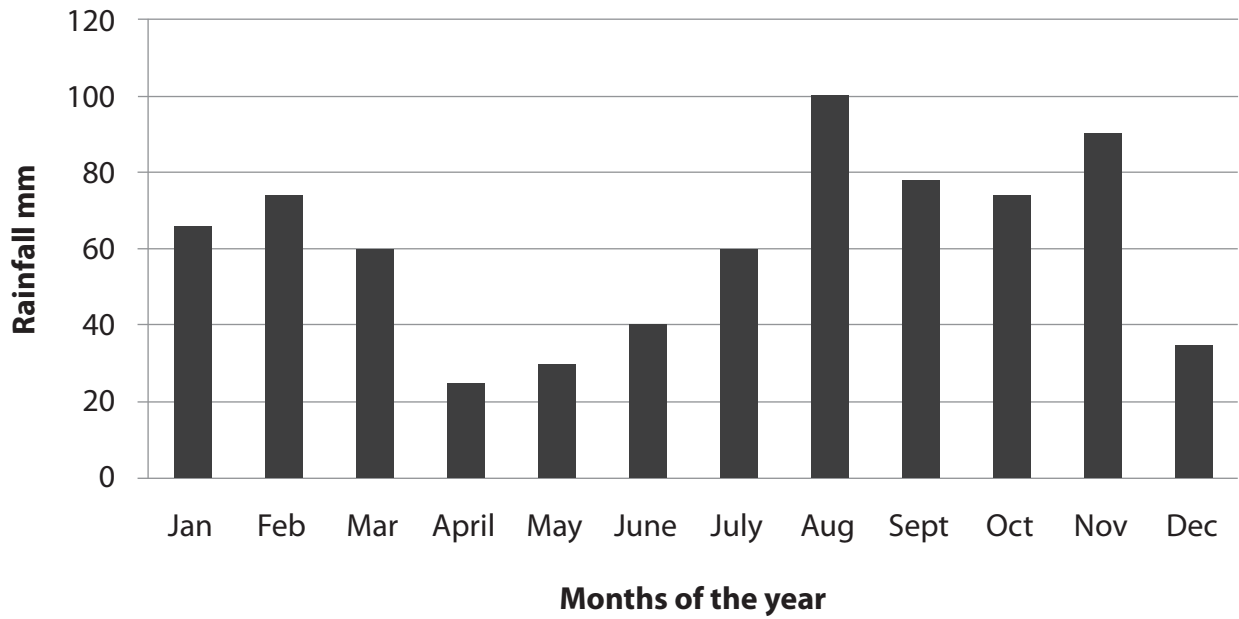


Figure 2(b)

(i) State the monthly rainfall in June.

(1)

..... mm

(ii) In which month was the highest monthly rainfall?

(1)

(c) Suggest reasons why the farmer needs to know about the weather in this lowland area.

(2)



(d) The farmer needs to know about the soil on the land.

Identify **two** nutrients the farmer would expect to find in the soil.

(2)

1

.....

2

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(Total for Question 2 = 8 marks)



3 Figure 3 shows a tree on the farmer's land.



Figure 3

(a) Describe how you would identify which species of tree it is.

(2)

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(b) Describe how you would carry out a survey to discover which plants grow within a 100 metre circle around the tree.

(4)

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(c) For an environmental survey that you have undertaken, describe how you presented the information collected.

(4)

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(Total for Question 3 = 10 marks)



4 The dairy farmer has completed a number of environmental surveys and has decided to create a **nature trail** on his farm, similar to the one shown in Figure 4 in the insert.

(a) Nature trails attract lots of visitors: families, school groups and walking groups.

Suggest how visitors to the nature trail might affect:

(i) the footpaths

(2)

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(ii) the animals

(2)

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(b) Explain ways in which the farmer might stop people damaging the natural environment during their visit.

(6)

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(Total for Question 4 = 10 marks)

TOTAL FOR PAPER = 40 MARKS





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Edexcel Principal Learning

Environmental and Land-based Studies

Level 1

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Insert

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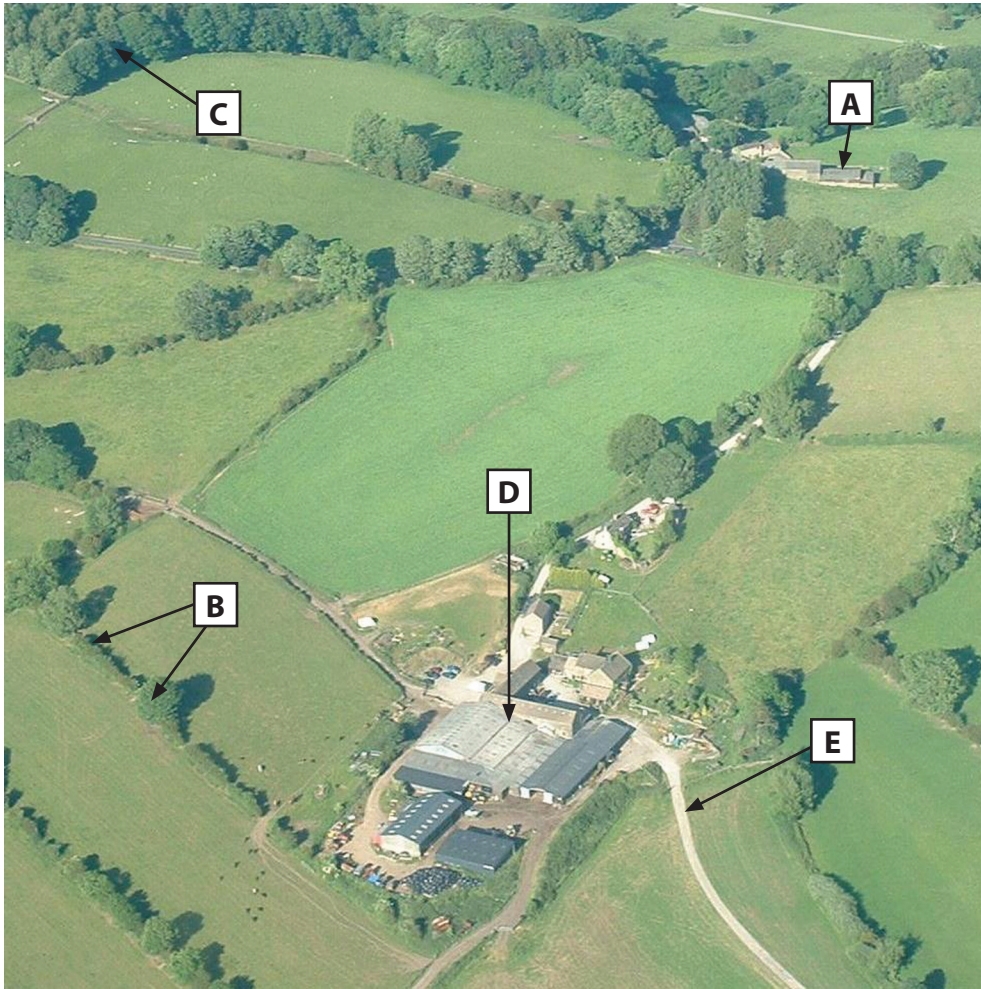
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Figure 1(a)



KEY








- | | | | |
|---|-----------|---|--------------|
|  | Roads |  | Buildings |
|  | Water |  | Bridge |
|  | Woodland |  | Bridle Gates |
|  | Doggy bin |  | Benches |
| | |  | Footpath |

Figure 4

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