

Write your name here	
Surname	Other names
Edexcel Principal Learning	Centre Number
	Candidate Number
Environmental and Land-based Studies Level 3 Unit 6: Plants and Animals – Safe Working Practices and Relevant Legislation	
Monday 7 June 2010 – Afternoon Time: 1 hour	Paper Reference ES306/01
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 Ridgend Farm is a dairy farm, growing some silage crops. It processes and sells some of its produce on site. In the past it has been poorly managed and environmental damage has occurred. Particular danger points have been:

- slurry is stored in a tank, transferred to slurry tankers and then injected into the fields
- silage is produced from forage crops for winter feed
- in winter the cattle are fed and watered at set points in the surrounding fields (Figure 1).



(Source: Environment Agency)

Figure 1

(a) Identify **two** types of Personal Protective Equipment that would be needed on a farm such as this. For each, identify why and how it would be used.

(4)

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(b) For **two** of Ridgend Farm's operations, explain how each might present a risk to the environment.

(6)

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(c) Describe the main roles of the Health and Safety Executive (HSE) in helping to ensure that farms such as Ridgend Farm are safe places to work.

(4)

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(d) Ridgend Farm is seeking to improve its safety record and has recently implemented a staff training programme. This will focus on the following:

- ensuring staff know their responsibilities to themselves and others
- updating staff knowledge of the organisation’s machinery and safety procedures
- ensuring staff are aware of the procedures and need for accurate record keeping.

For a named environmental and land-based business, explain how improvements in staff health and safety training can affect its operations.

(8)

Named business

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(Total for Question 1 = 22 marks)



2 Ridgend Farm exports some of its animals live to France.

(a) Outline **two** ways in which current legislation and codes of practice help to maintain good animal health during transportation.

(4)

1

2

(b) The presence of notifiable diseases such as BSE has led to the development of procedures for tracking cattle. This enables DEFRA to be able to assure the public that there is no danger to them from these diseases.

Discuss how the tracking and auditing procedures that exist under present legislation enable DEFRA to make this assurance.

(6)

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(c) BSE is just one example of an animal notifiable disease that can affect economic and social activity. An outbreak of such a disease can affect not just the farm but a wider area.

Discuss the economic and social implications of an outbreak of a notifiable disease.

(8)

A series of horizontal dotted lines provided for the student to write their answer to the question.



(d) Ridgend Farm has an on site processing plant. Products include sausages and pies from their own animals which are slaughtered at a nearby abattoir. The farm grows some vegetables, and also buys in other foodstuffs, for use in these products. Preparation and packaging is done on site. The farm has a shop which sells fresh meat, cheese, eggs and some of its processed products.

Staff at both the plant and shop comply with measures required by specific food safety legislation and more general HACCP (Hazard Analysis Critical Control Points) procedures.

Explain how these measures help to ensure that any risk to public health from Ridgend Farm's products is minimised.

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(Total for Question 2 = 28 marks)

TOTAL FOR PAPER = 50 MARKS

