

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 Relevent Legislation	
Sample Assessment Material 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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Scenario

Willwood Farm is a mixed farm situated close to a number of urban conurbations with a catchment of nearly 500 000 people.

It covers an area of approximately 364 hectares (900 acres) of rolling countryside. In recent years its owners have decided to diversify in order to cope with the economic pressures facing the industry.

In order to do this it has:

- retained some production animals (sheep and dairy cattle)
- retained some arable land primarily used for silage production and grazing
- retained its woodland and wetland features
- developed as an open farm which features a Pets' Corner
- developed its own brand of value-added products using its own and local produce wherever possible.

These developments have proven to be successful. However, they do present their own challenges which the farm has to face and manage in order to stay in business.



1 Open farm challenges

Diversification as an open farm has proved to be extremely successful. It is the only such facility within a 50-mile radius and has become an important teaching and learning resource as well as a popular visitor attraction.

Children are encouraged to learn about the animals and farm processes. There is a Pets' Corner where they are allowed to stroke smaller animals such as rabbits and sheep. Donkeys, sheep and cows are kept in fields and visitors are allowed right up to the wooden rails in order to feed carrots to the donkeys. There is a grassy area with picnic tables and the farmer allows his sheep to graze this area when there are no visitors.

This type of operation means that the public may be exposed to zoonoses (diseases which can be transmitted to humans from animals).

Identify **three** ways in which a possible zoonotic disease could occur at the farm. For each occurrence provide a solution.

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(Total for Question 1 = 6 marks)



6 Value-added products

Willwood Farm produces, as a value-added food product, its own yoghurt using milk from their own cattle. This is the method used on the farm:

- milk from the cattle is put into sterilised containers
- it is heated to 70°C for 15 seconds to kill bacteria
- it cools to 50°C
- fruit from a local supplier is added to the milk (quarantine identification cards must be provided by the supplier)
- yeast is added to the mixture
- after 3 hours the yoghurt is poured into plastic pots
- the pots are sealed and kept in a refrigerator at 4°C which prevents harmful bacteria from growing.

In order to ensure that the process eliminates any risk to the customer, it is subject to Hazard Analysis Critical Control Points (HACCP) quality control.

An HACCP analysis was carried out on the yoghurt making process. The storage of the yogurt was found to be the **critical control point**. The temperature of the refrigerator was found to be unreliable.

Assess the benefits to the farm business of using quality control processes, identifying the stages involved in determining critical control points, using relevant examples from the information given above.

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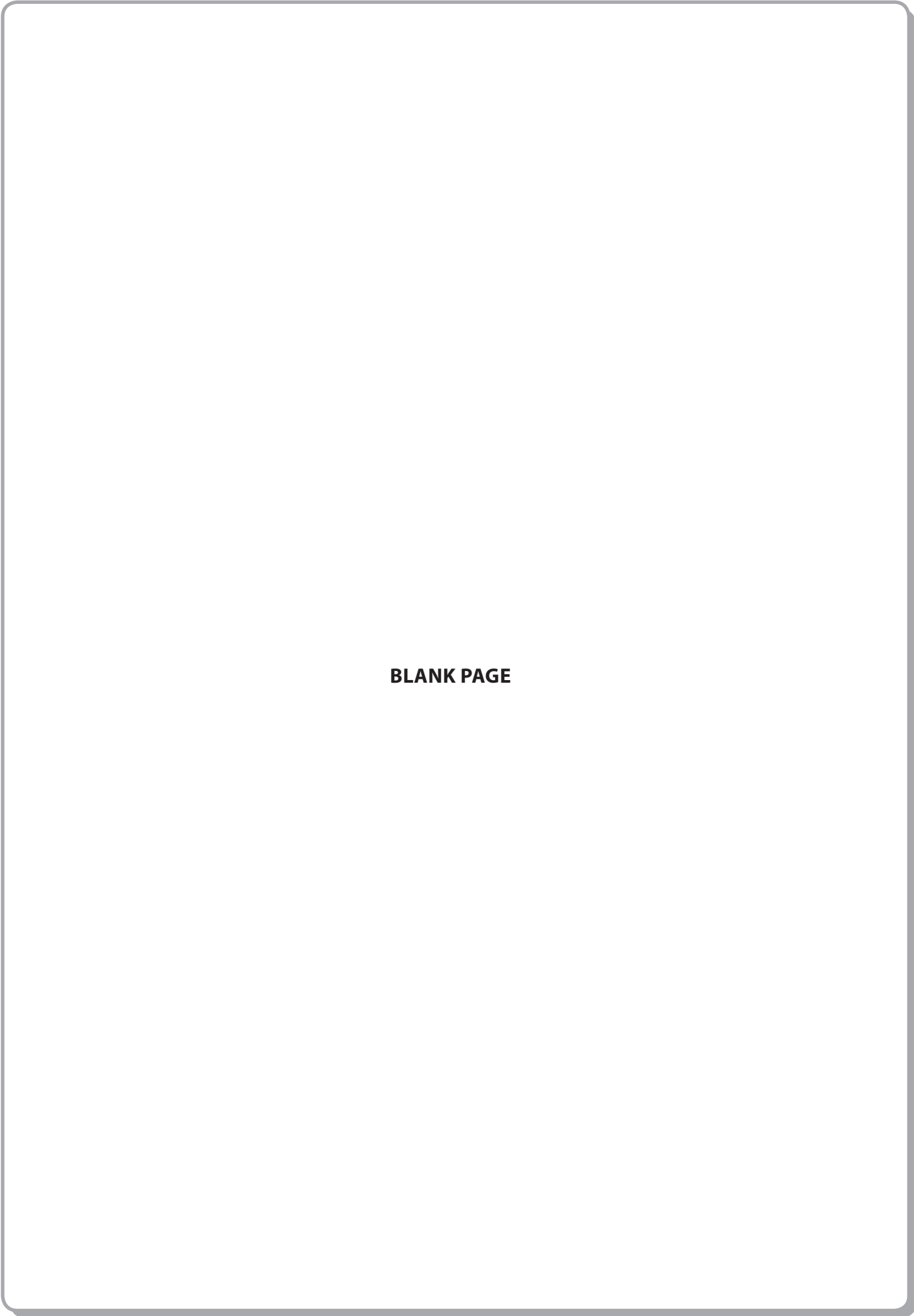


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