

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 3  
Unit 6: Plants and Animals – Safe Working  
Practices and Relevant Legislation**

Tuesday 12 June 2012 – Morning

**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.

Turn over ►

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**PEARSON**

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

**1** Cutom is a horticultural business, growing tomatoes and cucumbers under glass using a hydroponic system. This involves the roots of plants trailing in flowing water that has nutrients added. The water is obtained from groundwater. The company uses biological controls, releasing predator insects to control pest infestations. Artificial lighting ensures that even in winter the crops are growing in the equivalent of strong sunlight.

All picking is done by hand, requiring hydraulic platforms for the pickers as the plants grow up to 8 metres high. The organisation is keen to minimise the chance of workplace accidents. One of the pieces of legislation it follows is the Use of Personal Protective Equipment (PPE).

(a) Identify **three** types of personal protective equipment that would be needed in a business such as this. For each, suggest why it would be needed.

**(6)**

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2 Each year Cutom has to buy new young plants. These are grown in the Netherlands and imported. Transportation of live plants increases the risk of damage to the environment and the organisation itself so it is carefully regulated. One of the ways in which plant movements are regulated is through Quarantine Identification Cards.

(a) State **two** key characteristics of Quarantine Identification Cards (QICs).

(2)

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(b) Explain how the use of plant passports helps to minimise risks to the business and the environment.

(6)

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(c) Cutom grades and packages all its own tomatoes and cucumbers at the moment. Cutom is considering sending its produce to a specialist packaging company. This company already provides this service for four other farms in the area.

- (i) Outline the possible benefits for Cutom of sending its produce to a specialist packaging company.

(4)

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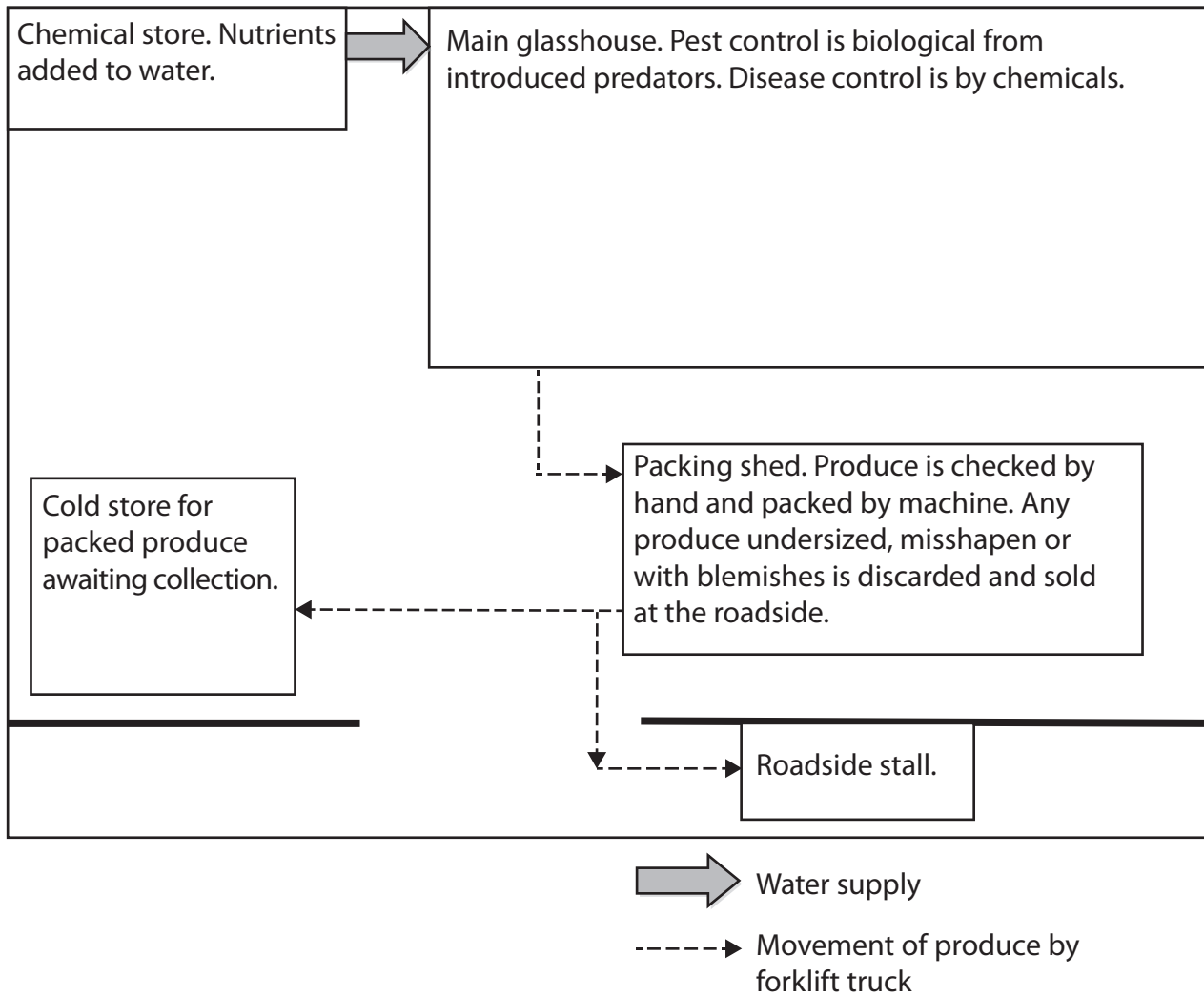
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(ii) Figure 1 shows the plan of Cutom's operations.



**Figure 1**









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