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**0171-506 JUNE 2018**

**Level 3 Advanced Technical Extended Diploma in Agriculture  
(Mixed Farming)**

Level 3 Agriculture – Theory exam (2)

If provided, stick your candidate  
barcode label here.

**Friday 15 June 2018**  
**13:30 – 15:30**

Candidate name (first, last)

First

Last

Candidate enrolment number

Date of birth (DDMMYYYY)

Gender (M/F)

Assessment date (DDMMYYYY)

Centre number

Candidate signature and declaration\*

• If any additional answer sheets are used, enter the additional number of pages in this box.

• Please ensure that you **staple** additional answer sheets to the **back** of this answer booklet, clearly labelling them with your full name, enrolment number, centre number and qualification number in BLOCK CAPITALS.

• All candidates need to use a **black/blue pen**. **Do not** use a pencil or gel pen.

• If provided with source documents, these documents **will not** be returned to City & Guilds, and will be shredded. **Do not** write on the source documents.

**\*I declare that I had no prior knowledge of the questions in this assessment and that I will not divulge to any person any information about the questions.**

**You should have the following for this examination**

- a pen with blue or black ink

**General instructions**

- Use black or blue ball-point pen.
- The marks for questions are shown in brackets.
- This examination contains 13 questions. Answer **all** questions.
- Answer the questions in the spaces provided. Answers written in margins or on blank pages will **not** be marked.
- Cross through any work you do not want to be marked.





4 State **two** reasons why Nitrogen is important for grass crops. (2 marks)

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5 Give **three** reasons why the grass shown in Figure 1 affects the productivity of the sward. (3 marks)



<http://cropscience.bayer.co.uk>

**Figure 1**

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6 Explain **three** ways that the time of cutting grass will affect grass silage. (3 marks)

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7 Explain **three** ways of promoting Lactobacillus bacteria in clamped grass silage. (3 marks)

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8 List **four** causes of an ATV turning over whilst in use. (4 marks)

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10 a) State **two** advantages of a torque converter compared to manual transmission. (2 marks)

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b) Name the **three** major parts of a torque converter. (3 marks)

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11 What is the correct tyre pressure for an ATV being used on rough terrain? (1 mark)

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12 Explain **one** advantage and **one** disadvantage of having a differential on an ATV. (2 marks)

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