0171-512 MARCH 2019
Level 3 Advanced Technical Extended Diploma in Agriculture (Arable)
Level 3 Agriculture – Theory exam (2)

If provided, stick your candidate barcode label here.

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 additional answer sheets are used, enter the additional number of pages in this box.
• Before taking the examination, all candidates must check that their barcode label is in the appropriate box. Incorrectly placed barcodes may cause delays in the marking process.
• Please ensure that you staple additional answer sheets to the back of this answer booklet, clearly labelling these 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, unless otherwise instructed.
• 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 examination 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 11 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.
1 Describe how the following types of waste can be disposed of safely.
   a) Metal. (1 mark)

   b) Fertiliser. (1 mark)

   c) Oils. (1 mark)

   d) Plastic. (1 mark)

2 State four pieces of legislation that apply to the storage, handling and disposal of farm waste. (4 marks)
3 Explain two factors that should be taken into account by the farmer when preparing a farm waste management plan.

4 List four different types of farm habitat that are important for the conservation of wildlife.
5 Explain how the following ways could increase the number of species on a farm, having carried out an ecological survey.

a) Good hedge management. (4 marks)

b) Field margins. (4 marks)
6 State four factors that need to be taken into account by the operator when calibrating a tractor mounted sprayer. (4 marks)

7 Explain four factors that would affect the accurate application of fertilisers. (8 marks)
8 Explain **two** pre-start checks that should be carried out on an all-terrain vehicle (ATV).

9 State **four** specialist features found on a rough terrain telescopic forklift (RTFL).

10 List **four** different ways of improving traction when using a RTFL.
A farmer is using a rough terrain telescopic forklift (RTFL) to load 600 Kg fertiliser bags into a twin disc fertiliser spreader which will then be spread on a level arable field.

Discuss the advantages of using the RTFL in this situation, and how to minimise damage to the environment when loading and spreading the fertiliser. (12 marks)