



0171-502 MARCH 2019
Technicals in Agriculture
 Level 3 Agriculture – Theory exam (1)

If provided, stick your candidate barcode label here.

Friday 15 March 2019
09:30 – 11:30

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 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 12 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 State **five** husbandry tasks that should be undertaken on new born lambs in the first week of their life. (5 marks)

- 2 Give **two** advantages for **each** of the following cutting mechanisms. (2 marks)
- a) Finger bar.

- b) Disc mower. (2 marks)

- 3 How can a farmer reduce the machinery costs when growing a crop of wheat? (4 marks)

4 State **four** reasons why weeds are becoming resistant to herbicides. (4 marks)

5 State **two** types of plant reproduction. (2 marks)

6 State **two** functions of guard cells. (2 marks)

7 Explain how the following factors affect the rate of plant transpiration.

a) High temperature. (2 marks)

b) High humidity. (2 marks)

c) Increased water supply. (2 marks)

d) Increased light. (2 marks)

8 Explain how the following soil characteristics affect plant growth and development.

a) Organic matter.

(3 marks)

b) Poor drainage.

(3 marks)

9 Give **three** potential consequences of soil erosion to agriculture.

(3 marks)

10 A farmer wishes to increase the efficiency of the sow breeding cycle.

a) Which **four** actions should the farmer take to achieve this? (4 marks)

b) Give **four** ways to reduce piglet mortality between birth and weaning. (4 marks)

11 Give **two** examples of later maturing beef breeds.

(2 marks)
