



0171-502 FEBRUARY 2022
Technicals in Agriculture
 Level 3 Agriculture – Theory exam (1)

If provided, stick your candidate barcode label here.

Monday 28 February 2022
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 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 List **four** continental beef breeds commonly used on UK farms. (4 marks)

2 A farmer is preparing a non-powered cultivator for work at the beginning of the season. Explain **two** of the preparation activities a farmer may carry out on the cultivator. (4 marks)

3 Explain **two** different reasons why it is important to control weeds in a cereal crop. (4 marks)

4 State **four** ways of reducing crop losses when harvesting potatoes. (4 marks)

5 Describe **four** factors necessary to maintain a 365-day calving interval in the dairy cow. (8 marks)

6 a) State the function of the meristem cells. (1 mark)

b) List **three** characteristics of meristem cells. (3 marks)

7 a) Describe how capping is created and its effect on soil structure. (4 marks)

b) Describe how a plough pan is created and its effect on soil structure. (4 marks)

8 Explain how the following factors affect the rate of transpiration and their effect on the transpiration rate.

a) Decreased air movement. (3 marks)

b) Low light levels. (3 marks)

9 Describe the **main** function of the phloem tissue in plants. (3 marks)

10 List **three** UK breeds of sheep which are primarily suited to a hill/mountain situation. (3 marks)
