



0170-501 JUNE 2018

Level 2 Technical Award in Land Based Studies

Level 2 Land Based Studies – Theory exam (1)

If provided, stick your candidate barcode label here.

Tuesday 19 June 2018
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 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 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 List the **four** factors required for Photosynthesis.

(4 marks)

2 a) Describe **two** stages in the process of transpiration.

(2 marks)

b) Describe **two** factors that can affect the rate of transpiration.

(4 marks)

3 Explain why fertilisers should be applied at the right time.

(6 marks)

4 Describe **four** potential impacts of an unbalanced diet on dairy cattle.

(4 marks)

5 State **four** signs/symptoms of Myxomatosis in rabbits.

(4 marks)

6 State **two** uses of land in the UK.

(2 marks)

7 Describe **three** ways that climate influences land use at A and B in Figure 1.

(6 marks)

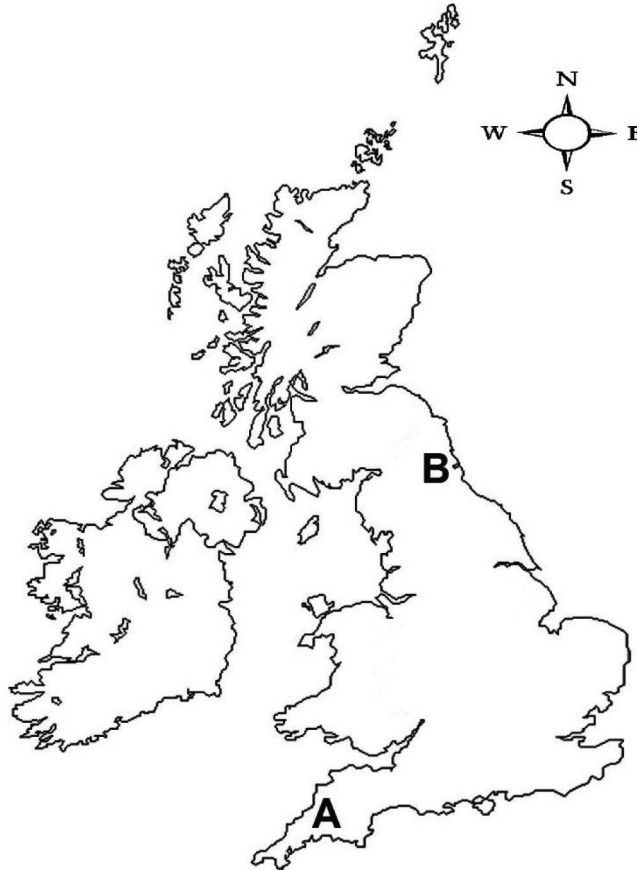


Figure 1

8 Describe **three** potential challenges and conflicts that can be caused by leisure activities in the countryside.

(6 marks)

9 Explain how advances in science and the innovation of land based machinery can benefit businesses.

(4 marks)

10 Describe **two** factors that a business will consider when purchasing a new tractor. (2 marks)

11 List **four** uses of Information Technology in land based industries. (4 marks)

12 A local farmer is hoping to reclaim land that has been unworked for many years.

The farmer is planning to use the land for intensive crop production. The site is next to a SSSI (Site of Special Scientific Interest) and a bird watching lake and marsh.

Discuss the potential challenges and conflicts that may arise and how farming practice and technology could be used to minimise any impact on the SSSI and bird watching.

(12 marks)
