



# 0170-501 MARCH 2019

## Level 2 Technical Award in Land-based Studies

### Level 2 Land Based Studies – Theory exam (1)

If provided, stick your candidate barcode label here.

Wednesday 13 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 14 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 a) What type of digestive system is shown in Figure 1? (1 mark)

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b) Name point A in Figure 1. (1 mark)

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c) What are the processes that take place in point A, in Figure 1? (2 marks)

\_\_\_\_\_  
\_\_\_\_\_

d) Name point B in Figure 1. (1 mark)

\_\_\_\_\_

e) What are the processes that take place in point B, in Figure 1? (2 marks)

\_\_\_\_\_  
\_\_\_\_\_

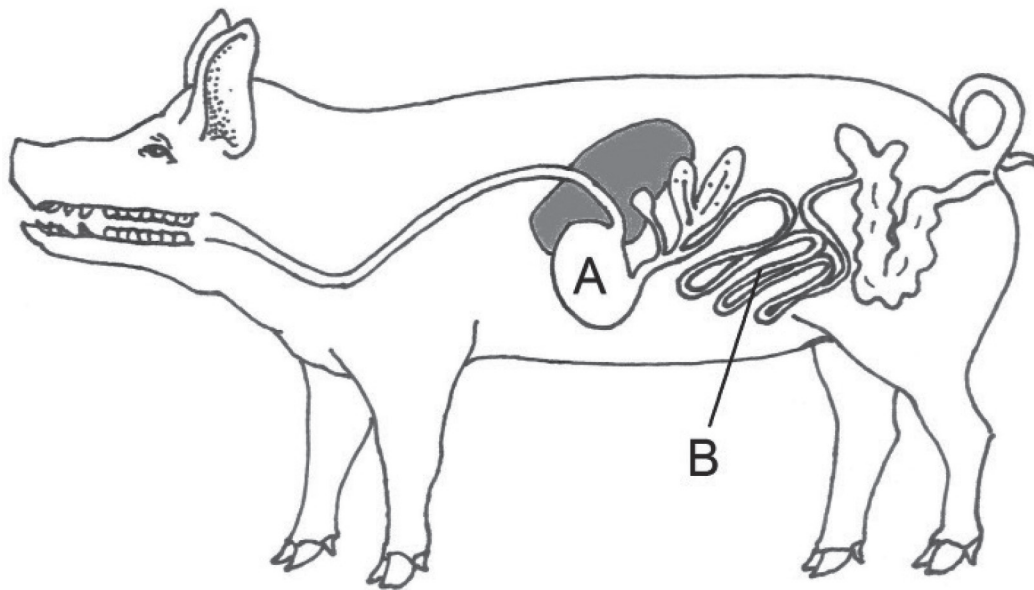


Figure 1

2 Name the structures A, B and C in Figure 2.

(3 marks)

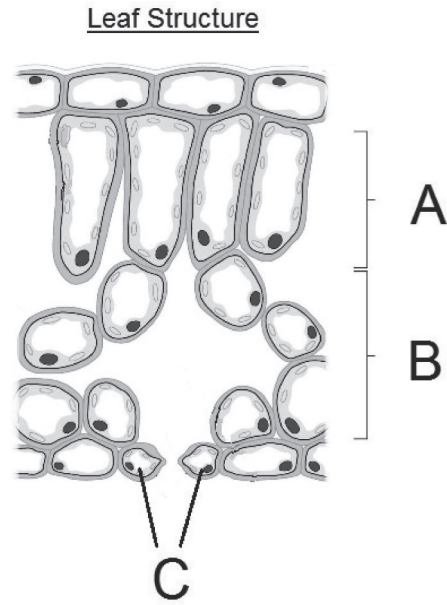


Figure 2

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3 Describe the process of translocation.

(3 marks)

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4 Explain how sunlight can affect the rate of transpiration.

(2 marks)

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5 Describe **three** ways that ringworm can be spread.

(3 marks)

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10 Describe **two** potential advantages and **two** disadvantages of fracking in the countryside.

(4 marks)

Advantages

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Disadvantages

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11 Scientific advances are important in the modern land-based sector. Describe how land-based businesses can use technology to harness energy.

(2 marks)

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12 Describe **two** advantages and **two** disadvantages of using battery operated chainsaws. (4 marks)

Advantages

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Disadvantages

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13 List **four** pieces of technology/equipment that could be used in the environmental and conservation industries. (4 marks)

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