



0174-512 MARCH 2018

Level 3 Advanced Technical Extended Diploma in Forestry and Arboriculture (1080)

Level 3 Forestry and Arboriculture – Theory Exam (1)

If provided, stick your candidate barcode label here.

Wednesday 14 March 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 a) Name the **three** labelled parts in the flower shown in Figure 1. (3 marks)

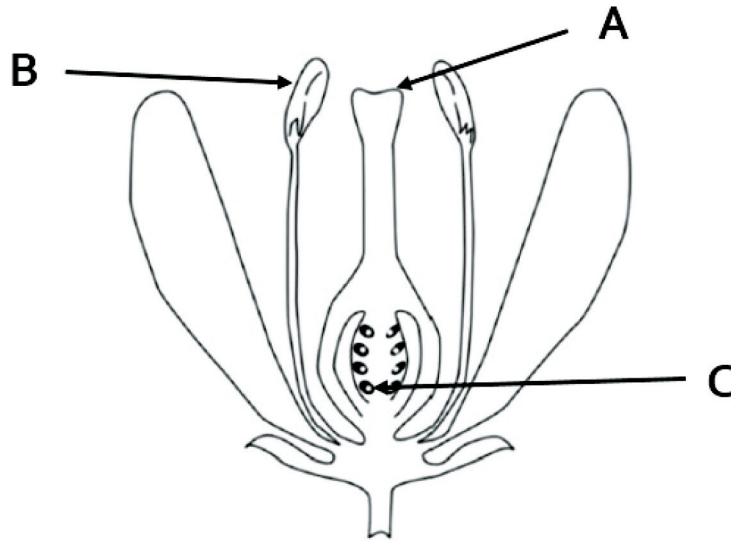


Figure 1

b) Explain how the design of **each** organ helps it perform effectively in the reproduction process. (3 marks)

2 Explain **three** key aspects of the dark phase of photosynthesis. (3 marks)

3 a) Describe **three** main characteristics of a clay soil. (3 marks)

b) Explain how these characteristics may affect plant growth and development. (3 marks)

7 State **two** advantages of using the tool in Figure 2. (2 marks)



Figure 2

8 a) State **three** signs of ill health in trees. (3 marks)

b) Explain **three** factors that predispose a tree to ill health. (3 marks)

9 a) Briefly describe the function of a resistograph in decay detection. (2 marks)

b) Summarise **two** benefits and **two** limitations of a resistograph. (4 marks)

10 State **two** pieces of legislation relevant to the practices and products used for controlling pests and diseases. (2 marks)

11 You have noticed a semi-mature elm tree yellowing in mid-summer.

a) Describe what has caused the yellowing and explain how it will affect the physiological processes of the tree.

(3 marks)

b) Explain how the problem is spread and what control measures might be effective.

(3 marks)
