



**0174-512 MARCH 2022**

**Level 3 Advanced Technical Extended Diploma in Forestry and Arboriculture**

Level 3 Forestry and Arboriculture – Theory Exam (1)

If provided, stick your candidate barcode label here.

**Monday 7 March 2022**  
**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 Name **three** types of soil cultivation. (3 marks)

---

---

---

---

---

2 a) What is plasmolysis? (1 mark)

---

---

b) Describe the process of plasmolysis. (3 marks)

---

---

---

---

---

---

3 Describe **three** benefits of adding organic matter as a method of soil improvement. (6 marks)

---

---

---

---

---

---

---

---

---

---

---

4 State **two** types of reproduction in plants. (2 marks)

---

---

---

---

5 Explain **two** functions of the fly wheel on a chainsaw. (4 marks)

---

---

---

---

---

---

---

---

---

---

---

---

6 Justify the use of **two** named felling methods. (6 marks)

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

7 Identify **three** common faults on a chainsaw.

(3 marks)

---

---

---

---

---

---

8 Name **three** pests or diseases currently affecting timber production in the UK.

(3 marks)

---

---

---

---

---

---

9 a) Describe how a sonic tomograph is used.

(3 marks)

---

---

---

---

---

---

---

b) Summarise **two** benefits and **two** limitations of a PiCUS tomograph.

(4 marks)

---

---

---

---

---

---

---

---

---

---





