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**0174-514 MARCH 2018**

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

Level 3 Forestry and Arboriculture – Theory exam (2)

If provided, stick your candidate barcode label here.

**Wednesday 14 March 2018**  
**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 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 13 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 Identify the leaf shown in Figure 1 by its correct common and botanical name. (2 marks)



Figure 1

Credit: Image Richard Hughes

2 Describe **two main** features that aid the identification of *Fraxinus excelsior*. (2 marks)

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3 You have been asked by a Local Authority to plant a street tree that will create instant impact. Name **two** types of appropriately sized nursery stock that would be suitable for this situation. (2 marks)

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Please note that this theory test has been amended to ensure it is fit for purpose for use as a sample assessment.



4 Explain **two** advantages and **two** disadvantages of planting bare rooted tree stock in a new plantation area.

(4 marks)

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5 You have been asked to provide information that will be used to plant an urban tree in a built-up inner city area.

a) Summarise **two** pre-planting considerations that would need to be taken in this situation.

(2 marks)

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b) Explain **two** planting and two support after care requirements for a tree in the urban environment.

(4 marks)

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6 Explain **four** different management techniques required for an ancient woodland habitat. (4 marks)

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7 a) Name **two** plant species that are indicators of historic features within woodlands. (2 marks)

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b) Identify the type of woodland associated with **each** of the plant species named in 7a). (2 marks)

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8 Explain **two** benefits and **two** limitations of using natural regeneration as a woodland management technique. (4 marks)

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9 Explain how **four** poor environmental conditions can lead to increased susceptibility to decay in trees. (4 marks)

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10 Identify the type of rot on trees caused by the following:  
• Honey fungus (*Armillaria mellea*).  
• Beefstake fungus (*Fistulina hepatica*). (2 marks)

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11 a) List **one** invasive and **one** non-invasive tree assessment method. (2 marks)

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b) For **each** of the tree assessment methods named in 11 a), explain **one** advantage and **one** disadvantage. (4 marks)

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