



**0174-512 JUNE 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.

**Monday 18 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**

- The marks for questions are shown in brackets.
- 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.
- Write all your working out and answers in this booklet.



1 a) Name the parts labelled A-D in Figure 1.

(4 marks)

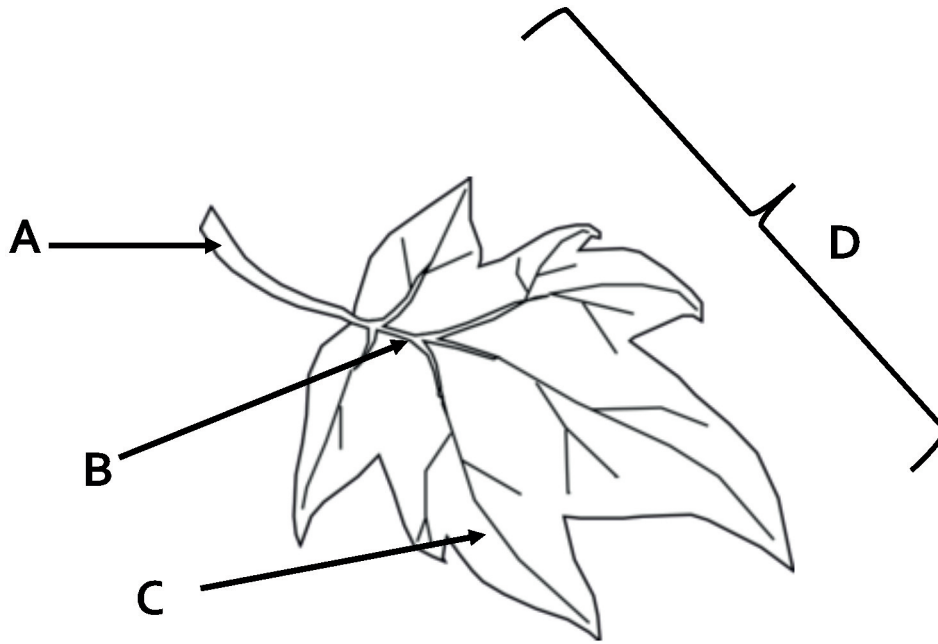


Figure 1

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b) Explain how the structure of **two** of the labelled parts help it perform effectively.

(4 marks)

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2 a) Give the chemical equation for photosynthesis. (1 mark)

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b) Balance the chemical equation given in Question 2 a). (1 mark)

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c) Explain the process of photosynthesis. (3 marks)

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3 Give one benefit and one limitation of seed dispersal by wind. (2 marks)

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4 Explain one consequence of a blocked air filter and how it affects the performance of a chainsaw. (2 marks)

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5 a) Identify one suitable method for felling a tree in breezy conditions. (1 mark)

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b) Give **two** reasons for the felling method chosen in Question 5 a). (2 marks)

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6 a) State **two** pre-start checks required before using a chainsaw. (2 marks)

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b) Explain a consequence of **not** carrying out **each** of the pre-start checks stated in Question 6 a). (2 marks)

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7 Give **four** reasons for leaving waste on a work site. (4 marks)

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8 a) State the common and scientific names of the fungi shown in Figure 2. (2 marks)



Figure 2

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b) State the common name of their preferred host. (1 mark)

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c) For the fungus named in Question 8 a), explain **two** ways to manage the affected tree in Figure 2.

(4 marks)

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- 9 a) Give one example where breeding for resistance to pests and diseases is an appropriate management strategy. (1 mark)

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- b) Describe **two** limitations of this strategy. (4 marks)

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10 a) Briefly describe the function of a PiCUS tomograph in decay detection. (2 marks)

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b) Describe one benefit and one limitation of a PiCUS tomograph. (4 marks)

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11 Explain why there is a system for reporting notifiable diseases. (2 marks)

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