



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 bit	rth (DDMMYYYY) Gender (M/F)			
Assessment date (DDMMYYYY) Centre nu	mber 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

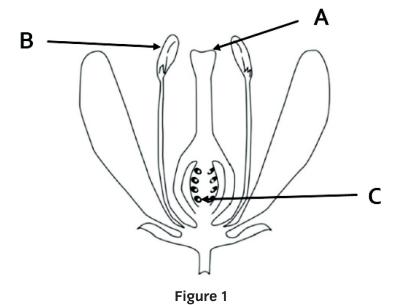
• a pen with blue or black ink

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.

(3 marks)

1 a) Name the **three** labelled parts in the flower shown in Figure 1.



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

2 Exp	Explain three key aspects of the dark phase of photosynthesis.	
		-
		-
		-
a)	Describe three main characteristics of a clay soil.	(3 marks)
		-
		-
		-
b)	Explain how these characteristics may affect plant growth and development.	(3 marks)
		-
		-
		-

5

Explain the stages of dealing with a hung-up tree.	(6 marks)
	_
	_
	_
	_
	_
Explain two effects of a poorly sharpened saw on cutting performance.	(2 marks)
	_
	_
Name three methods for dealing with brash on a felling site.	(3 marks)
	_
	_

(2 marks)

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



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)

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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	Sta con	te two pieces of legislation relevant to the practices and products used for strolling pests and diseases.	(2 marks)
			_

(12 marks)

12 Figure 3 is a PiCUS image from a mature beech tree in a well-used urban woodland.

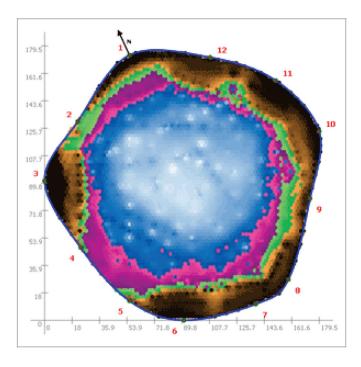


Figure 3

Discuss the biological and structural implications for the tree and the factors to be considered when managing it.		