



## 0174-512 APRIL 2017 Technicals in Forestry and Arboriculture

Level 3 Forestry and Arboriculture – Theory Exam (1)

If provided, stick your cand barcode label here.	lidate Wednesday 26 April 2017 13:30 – 15:30
Candidate name (first, last)	chan citte
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Candidate enrolment number	Date of birth (DDMMYYYY)
	at a store
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• If any additional answer sheets	are used, enter the additional number of pages in this box. 🔿 🛛 🔍
• Please ensure that you <b>staple</b>	additional answer speets to the <b>back</b> of this answer
	with you mill name, enrold ent number, centre number
and qualification number in BL	lack blue, cen. Do het use a pencil or gel pen.
	ents, these documents <b>will not</b> be returned to City & Guilds, writeger the source documents.
	knowledge of the questions in this assessment
and that I will not divinge to	Bhy person any information about the questions.

## You should have the following for this assessment

- a pen with bue or black ink
- General Instructions
- Use black or blue ball point pen.
- The marks for questions are shown in brackets.
- This examination contains 16 questions. Answer all questions.
- Answer the puestions in the spaces provided. Answers written in margins or on black pages will **not** be marked.
- Crosophrough any work you do not want to be marked.

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Name <b>two</b> pieces of legislation that are relevant to the use and operation of land based machinery.	(2 marks)
Describe <b>two</b> ways environmental damage can be minimised when operating land based machinery.	(2 marks)
Explain <b>three</b> factors that affect the rate of photosynthesis.	(3 marks)
Describe <b>three</b> features of a good soil <b>and</b> how they impact physiological processes	5. (6 marks) 

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5	Describe <b>three</b> methods of improving poor soils conditions.	(3 m
6	Explain <b>two</b> reasons for using the correct bar and chain combination on a chainsaw.	(2 m
7	The tree you are going to fell has decay in the base. State <b>two</b> ways you could alter	
	your felling method <b>and</b> explain how they would improve the operation.	(2 m
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8	For t heal	he following abiotic disorders and human influences, explain <b>two</b> impacts on tree the for each.	
	a)	Road salt.	(2 marks)
	b)	Lighting.	(2 marks)
	C)	Mechanical damage.	(2 marks)
	d)	Frost.	(2 marks)
9	Stat a)	e the common name of <b>each</b> of the following in the UK. Invertebrate pest.	(1 mark)
	b)	Tree decay fungus.	(1 mark)
	C)	Bacteria that affects trees.	(1 mark)

)174-512	26 April 2017
0 State <b>three</b> types of environmental impact that might occur during chainsaw	/ use. (3 marks)
Name <b>four</b> methods of pest and disease control <b>and</b> give an example for eac	:h. (4 marks)
	5
<ul> <li>Describe one way each of the following methods promote tree health and he prevent attack from pathogens.</li> <li>a) Irrigation.</li> </ul>	elp (1 mark
b) Feeding.	(1 mark

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You need to carry out some sanitation felling for disease control in a woodland. Discuss considerations you should address in this situation and justify the actions	
you would take.	(12 ma

14 Name **three** meristematic regions in a tree.

15 A two-stoke machine will turn over but not start. Explain **two** reasons why this might happen. (2 marks) 16 State **one** pathogen and describe **two** impacts it has on the host. (2 marks)