



0174-506 MARCH 2019
Level 3 Advanced Technical Extended Diploma
in Horticulture (720)

Level 3 Horticulture – Theory Exam (2)

If provided, stick your candidate
barcode label here.

Wednesday 13 March 2019
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 11 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 State **three** environmental factors that can affect the maintenance requirements of a fine quality lawn. (3 marks)

2 a) Explain why **not** scarifying a lawn in springtime may cause problems. (3 marks)

b) Give **two** benefits of **each** of the following lawn maintenance operations. (2 marks)

i) Bulky top dressing.

ii) Aeration. (2 marks)

3 State the **main** function of **each** of the following structures of a plant.

a) Lenticel. (1 mark)

b) Pericycle. (1 mark)

4 a) List **four** parts of the leaf involved in the process of photosynthesis. (4 marks)

b) Explain the difference between primary and secondary growth in plants. (4 marks)

5 Give **four** advantages of sexual reproduction in plants.

(4 marks)

6 Describe **five** signs of water logging due to poor drainage in a soil.

(5 marks)

7 Explain how sandy soil type affects plant growth.

(3 marks)

8 With reference to maintaining good soil structure, give **four** advantages of zero cultivation methods for a new plot. (4 marks)

9 Explain the importance of **each** of the following steps in the process of natural target pruning. (2 marks)
a) Undercut.

b) Downward cut outside the undercut. (2 marks)

c) Downward cut outside the branch collar. (2 marks)

10 a) State **four** recognised tree-pruning techniques that can be used to ensure compliance with the Highways Act 1980. (4 marks)

b) For **one** of the tree-pruning techniques in 10a), give **two** situations where it can be used to make a tree compliant with the Highways Act (1980). (2 marks)
