



0174-502 MARCH 2018

Level 3 Advanced Technical Extended Diploma in Horticulture (1080)

Level 3 Horticulture – Theory Exam (1)

If provided, stick your candidate barcode label here.

Thursday 8 March 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

- 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 State **four** differences between the morphological characteristics of gymnosperms and angiosperms. (4 marks)

2 Explain **three** ways that plants adapt their leaf and root systems to enable them to survive in maritime conditions. (6 marks)

3 Using examples, explain how the binomial system can aid with the botanical and morphological identification of plants. (4 marks)

4 Botanically name:
a) **one** large ornamental tree suitable for growing on a city street (1 mark)

b) **one** shrub for growing in front of a north facing wall of a domestic garden. (1 mark)

5 Explain **two** benefits of controlling weeds surrounding newly planted trees. (2 marks)

6 Explain how the safety features of a petrol lawn mower function to protect the user. (3 marks)

7 List **four** pre-use checks that should be carried out to ensure the safe and smooth running of a petrol operated hedge trimmer. (4 marks)

8 John is supervising a group of workers using garden machinery and he must ensure his company complies with Provision and Use of Work Equipment Regulations 1998 (PUWER). Summarise the considerations he needs to take into account in order to comply with this regulation. (3 marks)

9 State **three** physical symptoms of weather damage to a newly planted tree. (3 marks)

10 a) Name **one** biological and **one** cultural method of control for insect pests in a greenhouse. (2 marks)

b) Outline **one** advantage and **one** disadvantage of using chemical controls for insect pests. (2 marks)

11 a) Identify **three** biosecurity measures associated with the trade and movement of plants. (3 marks)

b) Outline the biosecurity measures that are in place to manage a current disease of major national concern. (4 marks)

12 Explain the environmental conditions that encourage the spread of a named disease and recommend **two** methods of control. (6 marks)
