



0174-502 JUNE 2018
Level 3 Technicals in Horticulture
 Level 3 Horticulture – Theory Exam (1)

If provided, stick your candidate barcode label here.

Monday 11 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

- 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.



1 State **four** differences between monocotyledons and dicotyledons. (4 marks)

2 a) Name **two** herbaceous perennials or woody shrubs using the binomial system. (2 marks)

b) Explain why the binomial system is used in botanical identification. (4 marks)

3 Explain how **two** environmental factors can affect a plant growing on an exposed site. (4 marks)

4 Summarise the immediate aftercare required for a newly planted tree until established. (4 marks)

5 Below are common faults found in land-based machinery.

- 1. Blunt blades.
- 2. Blocked air filter.
- 3. Incorrect fuel mix.
- 4. Incorrectly gapped spark plug.

a) Identify one sign of **each** fault. (4 marks)

b) Suggest an appropriate remedial action for **each** fault. (4 marks)

c) Describe **two** general maintenance operations for a lawn mower that should be undertaken to ensure smooth running. (2 marks)

6 a) Describe the difference between the life cycle of ephemeral and annual weeds. (1 mark)

b) Give an example of **each** type of weed using the binomial system. (2 marks)

c) Describe **two** methods of controlling the development of ephemeral weeds from newly cultivated soil. (2 marks)

7 a) Name **two** fungal plant diseases. (2 marks)

b) State a potential host plant genus for **each** disease. (2 marks)

8 Explain how cultural control methods could help minimise plant disorders. (3 marks)

9 State **two** features required of a pesticide store.

(2 marks)

10 Describe how physical control methods can be used to control **each** of the following.

- a) Fusarium patch.
- b) Fire blight.
- c) Carrot fly.
- d) Slugs.

(4 marks)

11 Explain a type of herbicide that would be **most** effective in controlling perennial weeds.

(2 marks)

12 Discuss ways of minimising the possible environmental impact of using land-based machinery when establishing and maintaining green spaces within a park in a residential area.

(12 marks)
