HM Government

T-LEVELS

T Level Technical Qualification in Agriculture, Land Management and Production
(Level 3)

Paper 2 – Crop, Woodland and Horticulture Core Pathway (8717-031)

If provided, stick your candidate barcode label here.

Date of exam: tbc
Duration: 2 hours

Candidate name (first, last)

First

Last

Candidate enrolment number

Date of birth (DDMMYYYY)

Gender (M/F)

Assessment date (DDMMYYYY)

Centre number

Candidate signature/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
- The marks for questions are shown in brackets.
- This examination contains **17** 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.

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This exam has been split into **two** sections. Below details the types of questions and marks available for each section. Please allow time for each section accordingly.

Section A is made up of **44** marks and includes **14** short answer and medium answer questions.

Section B is made up of **36** marks and includes **3** extended response questions.

Section A

1 Disposal is a method of managing waste using the waste management hierarchy.

Identify **two** other methods from the waste management hierarchy.

(2 marks)

2 State **two** functions of a root.

(2 marks)

3 State **two** roles of the Plant Health and Seeds Inspectorate.

(2 marks)

4 a) Define what is meant by the terms 'direct competitors' **and** 'indirect competitors' in a business context.

(2 marks)

b) You are a supplier of compost mixes for planting material.
Give **two** examples of what your indirect competitors could supply.

(2 marks)

5 Give **two** examples of the benefits of educating the public on plant biosecurity.

(2 marks)

6 Explain **one** reason why different types of waste materials should be identified prior to disposal.

(2 marks)

7 Explain **one** method which ensures safe storage of hazardous chemical liquids.

(2 marks)

8 Explain **one** reason why a business would lease rather than purchase machinery and equipment.

(2 marks)

9 Explain **two** methods for establishing information about existing customers to expand the customer base.

(4 marks)

10 The environmental control system in a propagation facility has a malfunction on regulation of temperature and light.

a) Explain **one** potential impact of the temperature malfunction on the physical processes of seed germination.

(2 marks)

b) Explain **one** potential impact of the light malfunction on the physical processes of the seedlings.

(2 marks)

11 Explain how **one** method mitigates against excessive transpiration from newly planted hedges.

(2 marks)

12 A busy site has a level delivery area next to the main storage building, which has overhead utility supplies.

A risk assessment must be completed for the receipt of plants which are delivered in a heavy goods vehicle. The delivery will be made by an external company and unloaded by the delivery vehicle's driver using their own forklift truck.

The receipt of a delivery of plants is a hazard.

In Table 1, explain **two** risks to staff for this hazard with **one** appropriate control measure for each risk.

The control measure must relate to the risk to staff.

Table 1

Hazard	Risk - How might staff be harmed	What precautions are already in place?	What control measure is necessary?
Delivery of plants	(1 mark)	None	(1 mark)
Delivery of plants	(1 mark)	None	(1 mark)

(4 marks)

13 The estate is replacing its old storage for chemical plant protection products with a new purpose-built store which meets all relevant requirements.

The stock of chemical plant protection products hasn't been checked for at least a year so waste management principles must be considered.

Explain the actions the estate manager should take when planning to relocate the stock into the new purpose-built store.

(6 marks)

14 Japanese knotweed (*Reynoutria japonica*) has been identified on a site which is located immediately next to a housing development.

Explain the implications that the **landowner** should consider.

(6 marks)

Section B

Section B

15 A plant production facility which imports plant material has discovered an insect in a consignment that it has received from outside the UK. The insect has been identified by the Animal and Plant Health Agency as a notifiable, non-native pest.

Analyse the potential impacts on the plant production business of finding the insect pest and justify actions to take to manage these impacts.

(12 marks)

16 Following several dry summers an outdoor producer is investigating what they can do to reduce the effects on future plant establishment and growth.

Analyse the potential effects of the dry summers on plant physiological processes throughout a plant's establishment and growth.

Justify which types of plant life cycle could provide the best future plant yield in a dry summer.

(12 marks)

17 You have been asked to supervise cleaning up a building after river flooding has occurred.

The enclosed, single storey building is used for the storage of machinery. The flooding lasted two days, reaching a maximum height of one metre. The river's water level has dropped to normal levels.

Analyse the potential hazards and associated risks of the clean-up and justify actions to prepare for the clean-up.

(12 marks)

End of Assessment

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