



Sharing the best in Gardening



R2104

UNDERSTANDING PLANT PROPAGATION

Level 2

Monday 11 February 2013

14:30 – 15:10

Written Examination

Candidate Number:

Candidate Name:

Centre Number/Name:

IMPORTANT – Please read carefully before commencing.

- i) The duration of this paper is **40** minutes.
- ii) **ALL** questions should be attempted.
- iii) **EACH** question carries **10 marks**.
- iv) Write your answers legibly in the lined space provided. It is **NOT** necessary that all lined space is used in answering the questions.
- v) Use **METRIC** measurements only.
- vi) Where plant names are required, they should include genus, species and where appropriate, cultivar.
- vii) Where a question requires a specific number of answers; only the first answers given that meet the question requirement will be accepted, regardless of the number of answers offered.
- viii) Please note, when the word 'distinct' is used within a question, it means that the items have different characteristics or features.

ANSWER ALL QUESTIONS

MARKS

Q1 a) State **FOUR** benefits of propagating plants from seed.

4

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

b) State **FOUR** limitations of propagating plants from seed.

4

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

c) Name **TWO** examples of plants that are propagated from seed.

2

.....

.....

.....

.....

Total Mark

Please see over/.....

MARKS

Q2 Describe, under **EACH** of the following headings, **ONE** method of extracting and preparing seed from fleshy berries (fruits):

- a) harvesting;
- b) maceration;
- c) separation;
- d) cleaning.

3
3
3
1

Total Mark

Please turn over/.....

MARKS

Q3 a) State what is meant by 'seed dormancy'.

2

.....

.....

.....

.....

.....

b) State **FOUR** methods of overcoming seed dormancy giving a different plant example for **EACH**, by completing the table below.

8

	Method of overcoming seed dormancy	Plant name
1		
2		
3		
4		

Total Mark

Please see over/.....

Q5 a) Name **TWO** plants that are normally propagated by **EACH** of the following types of cutting:

- i) semi-ripe (greenwood deciduous with leaves);
- ii) hardwood evergreen.

2
2

.....

.....

.....

.....

.....

.....

.....

b) State **TWO** effects of juvenility on the ability of cuttings to produce roots and shoots.

4

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

c) State **ONE** effect of plant health on the ability of cuttings to produce roots and shoots.

2

.....

.....

.....

.....

.....

Total Mark

MARKS

Q6 a) Name **ONE** plant propagated by 'air layering'.

1

.....

.....

.....

b) Describe, with the aid of a clearly labelled diagram, propagation by 'air layering'.

9

.....

.....

.....

.....

.....

.....

.....

Total Mark

**©These questions are the property of the Royal Horticultural Society.
They must not be reproduced or sold.**

**The Royal Horticultural Society, Wisley, Woking, Surrey GU23 6QB.
Charity Registration Number: 222879/SC038262**