

**CORK INSTITUTE OF TECHNOLOGY
INSTITIÚID TEICNEOLAÍOCHTA CHORCAÍ**

Semester 1 Repeat Examinations 2009/10

Module Title: Horticulture Principles

Module Code: AGRI7004

School: Science

Programme Title: Bachelor of Science in Herbal Science

Programme Code: SHERB_8_Y2

External Examiner(s): Prof. E. Williamson, Dr. D. Clare

Internal Examiner(s): Mr. J. Croke

Instructions: Answer any **FOUR** questions. All questions carry equal marks.

Duration: 2 Hours

Sitting: Autumn 2010

Requirements for this examination:

Note to Candidates: Please check the Programme Title and the Module Title to ensure that you have received the correct examination paper.
If in doubt please contact an Invigilator.

Q. 1 Discuss, giving examples, the propagation of plants using stem and root cuttings. **25 Marks**

Q. 2 (a) Outline briefly the general environmental requirements for successful plant propagation **5 Marks**

(b) Discuss propagation structures used for commercial plant propagation. **20 Marks**

Q. 3 Outline the Division and Layering techniques of plant propagation. **25 Marks**

Q. 4 Discuss the properties of rooting media used in commercial seed and cutting propagation. **25 Marks**

Q. 5 (a) Outline the essential differences between seed and other forms (cuttings, division, layering) of commercial plant propagation. **10 Marks**

(b) Discuss briefly the process of seed germination. **5 Marks**

(c) Outline the main differences between own sourced (wild) and commercially available seed for commercial plant propagation. **10 Marks**

Q. 6 (a) Outline briefly the importance of good hygiene practices in preventing disease and pest outbreaks in protected (glasshouse etc) plant propagation. **10 Marks**

(b) Discuss briefly the control of **one** fungal disease and **one** pest that occur in commercial plant propagation. **15 Marks**