

Cork Institute of Technology  
Bachelor of Science (Honours) in Herbal Science – Stage 1

(NFQ Level 8)

Summer 2007

**Horticulture**

(Time: 3 Hours)

Instructions  
Answer FOUR questions.

Examiners: Mr. B. O'Dwyer  
Mr. M. Donoghue  
Dr. D. Corrigan  
Mr. E. Walsh  
Dr. S. Kumar

- Q1. What are the damages caused by weeds? Discuss the weed management in horticultural crops. (25 marks)
- Q2. In the case of pest control in crops, evaluate the different strategies of cultural control that can be employed. (25 marks)
- Q3. Outline the differences you would expect between a polythene house and a glasshouse in relation to growing crops under protection. (25 marks)
- Q4. (a) Explain what soil pH is and how it might affect crop growth. (15 marks)  
(b) Briefly describe the problems that can be associated with low pH in a soil. (10 marks)
- Q5. (a) Discuss the factors that will effect earth worm activity. (15 marks)  
(b) Evaluate the role earthworm's play in determining the Productivity of a soil. (10 marks)
- Q6. (a) Describe the various Nitrogen pathways in soil. (15 marks)  
(b) Discuss how knowledge of the N-cycle can be used to reduce Nitrogen losses. (10 marks)