

Ollscoil na h-Éireann, Gaillimh

WINTER EXAMINATIONS 1999

2nd year Environmental Science B.Sc.

ENVIRONMENTAL MANAGEMENT & LEGISLATION

PAPER II

ENVIRONMENTAL MANAGEMENT

EXTERNAL EXAMINER: Professor R B Wood

INTERNAL EXAMINER: Dr M J Gormally

Time allowed: TWO hours

Answer: THREE questions

(Indicate clearly the questions answered on the first page of your answer book)

Q.1 A site in Connemara National Park which has been damaged by visitor trampling has been fenced off, preventing access to members of the public. Describe the methods you would use to monitor the changes in vegetation which subsequently take place at the site.

Q.2 As an employee of the National Parks and Wildlife Section (Dúchas), you have been requested to undertake a detailed survey of terrestrial invertebrates at the site of a proposed golf course. With reference to their limitations and using illustrations, describe the different trapping methods you could use.

Q.3 a) Using an example, describe how the Jolly Method is used to estimate animal population sizes.

b) Define ecological diversity. Describe (with examples) how the assessment of sites for conservation by diversity alone can be misleading.

Q.4 "Almost all ecological and conservation work requires censusing or monitoring but many studies fail for a variety of reasons."

Critically discuss this statement with reference to common mistakes made in censusing / monitoring studies. Support your answer with relevant examples.

p.t.o.

- Q.5** Describe (in detail) the field methods used to determine small mammal populations. In your answer, discuss possible reasons for poor capture rates.