

OLLSCOIL NA hÉIREANN

NATIONAL UNIVERSITY OF IRELAND, GALWAY

SEMESTER II EXAMINATIONS, 2003

Third Year (Denominated B.Sc. Degree in Marine Science; Honours)

*MR 317: Marine Ecology II*Prof. M.J. Dring
and the internal examiners

Time allowed: 3 hours

*Answer four questions, at least one from each section.**Section A*1. ***EITHER***

How would you obtain a sample of a) Seawater for trace metal analysis; b) Oceanic particulate material; c) Sediment, for work on early diagenetic processes.

OR

Write notes on different techniques of current measurement in oceanography.

2. Discuss critically techniques for the sampling for phytoplankton.

3. ***EITHER***

Write an account of the various methods of zooplankton sampling, processing of plankton samples and standardization of data.

OR

Describe the procedure known as sediment profile imagery (SPI) and its use in sampling the soft seafloor.

4. Describe how marine organisms cope with the abiotic factors of their environment.

(p.t.o)

(MR317 contnd.)

Section B

5. 1. Write a short appreciation of two of the following (a) amensalism, (b) redox potential discontinuity, (c) successional change, with respect to an ecosystem of your choice.
6. Write a brief essay on bioturbation.
7. ***EITHER***
Describe the principal limiting factors and their effects on the animals on the shore.

OR
Critically review the use of animals in marine Environmental Impact Assessments (EIAs).
8. Write an essay on nekton.