

OLLSCOIL NA hÉIREANN

NATIONAL UNIVERSITY OF IRELAND, GALWAY

SEMESTER II EXAMINATIONS, 2004

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

*MR 401: Advanced Topics Paper II*Prof. M.J. Dring
and the internal examiners

Time allowed: 3 hours

*Answer four questions, at least one from each section.
Use a separate answer book for each section.*

SECTION A

1. **EITHER**

Discuss the biogeochemical and ecological effects of marine viruses.

OR

Discuss the structure and function of marine microbial food webs.

2. "The relationship between physical oceanographic processes and phytoplankton distributions is now well understood for continental shelf regions". Discuss this statement and illustrate your answer with examples of how the phytoplankton biology and physical oceanography interact around the Irish Shelf in summer.
3. Write an essay on marine biodiversity.

(P.T.O.)