

*Ollscoil na hEireann, Gaillimh*  
*National University of Ireland, Galway*

Semester II Examinations, 2004

BSc (Honours)

ZO405

Zoology

Extern Examiner : Dr. John Breen  
and Internal Examiners

Answer *four* questions

Time Allowed : Three Hours

- Q 1. Outline what you perceive as the importance of 'marine snow' in the sea.
- Q 2. Write an essay on 'bioturbators' as ecosystem engineers.
- Q 3. Give a critical appreciation of the phenomenon of 'succession' in coastal seas.
- Q 4. Write an essay on the medical importance of Platyhelminthes.
- Q 5. *Either* Describe methods of estimating the abundance of a spawning fish species and comment on the relevance of the recommended Total Allowable Catch *Or* Discuss "The general structure of pelagic food webs in different latitudes and oceans reflects the diversity of plankton and other community characteristics".
- Q 6. *Either* Distinguish between the Agnatha and the Gnathostomes. Describe the evolution of their main distinguishing feature with reference to the phylogeny of its elements *Or* Describe, with the aid of diagrams some novel evolutionary features of the "Amniotes" and explain why these represented major evolutionary adaptations.