

NATIONAL UNIVERSITY OF IRELAND, GALWAY
Ollscoil na hEireann, Gaillimh.

SECOND SCIENCE EXAMINATIONS 2003

Zoology ZO205

Extern Examiner : Dr. John Breen
and Internal Examiners

Time allowed : Three Hours
Answer *five* questions

- Q 1. Discuss movement and feeding in the Protozoa.
- Q 2. Describe the general organisation of the Phylum Cnidaria. How does the Class Anthozoa conform to the general plan ?
- Q 3. Give an illustrated description of the adult and various larval stages of a typical fluke (Phylum Platyhelminthes, Class Trematoda). Write a short account of medically important flukes.
- Q 4. *Either* Describe the life-styles of polychaete worms as revealed by their feeding methods *or* Compare and contrast the Oligochaeta and Hirudinea, with particular reference to feeding and locomotion.
- Q 5. Write an essay on dibranchiate cephalopods.
- Q 6. *Either* Write a critical appreciation of the phenomenon of torsion in prosobranch gastropods *or* Describe the methods whereby prosobranch molluscs have dealt with the sanitation problem imposed by torsion.
- Q 7. Write a brief essay on the Arachnida, with reference to evolutionary trends indicated by the morphology of living forms.
- Q 8. Write an illustrated account of the Class Copepoda.
- Q 9. Give an account of the life-cycle of a typical holometabolous (endopterygote) insects life-cycle and discuss insect metamorphosis.