

NATIONAL UNIVERSITY OF IRELAND GALWAY

SEMESTER I EXAMINATIONS, 1999-2000

SECOND SCIENCE

Zoology ZO202

Extern Examiner : Professor G. Fava.
and the internal examiners.

Time allowed : Three hours

Answer *five* questions

- Q 1. Write an outline account of the Protozoa.
- Q 2. Describe the general organisation of the Anthozoa and write a short account of coral reefs.
- Q 3. With reference to named examples, describe the life-cycles of *two* digenetic flukes which typically infect man.
- Q 4. With regard to the Polychaeta, write concise notes on *three* of the following :
(a) prostomium/peristomium (b) nephridia (c) indirect deposit feeding (d) epitoky.
- Q 5. Compare and contrast the Oligochaeta and Hirudinea.
- Q 6. *Either* write a critical appreciation of the phenomenon of torsion in the Prosobranchia *or* give an illustrated account of feeding in the eulamelibranch bivalve.
- Q 7. Provide an illustrated account of the structure of a King Crab (*Limulus*) and discuss the phylogenetic relationships of the Class Merostomata.
- Q 8. Write a brief essay on the myriopdous arthropods.
- Q 9. Give an account of moulting and metamorphosis in the Insecta.
- Q 10. Give a detailed account of the Class Cirripedia, to include a description, with named examples, of the external structure, feeding and reproduction.
- Q 11. With reference to the Crustacea, write notes on *three* of the following :
(a) sense organs (b) parasitism (c) locomotion (d) burrowing.