

Ollscoil na hEireann, Gaillimh
National University of Ireland, Galway

Semester II Examinations, 2004

2BS, 2 ENV, 2MR, 2ER.

Zoology ZO206

Extern Examiner : Dr. John Breen

Internal Examiners : Professor Brendan Keegan, Professor N.P. Wilkins

Answer *five* questions

Time allowed : Three Hours

- Q 1. It is frequently contended that the Holothuroidea are the most aberrant of the Echinodermata. Describe the basic plan of organisation in the class, drawing attention to what you would regard as aberrant features.
- Q 2. What is meant by the expression "the chordate Bauplan"? What features of the chordate bauplan are found in the Urochorda ?
- Q 3. "The Chondrichthyes (sharks, rays and skates) differ from the Osteichthyes (bony fish) in many respects, including their scales, teeth, buoyancy, and reproduction". Discuss.
- Q 4. With reference to fish, write a note on *two* of the following : lampreys, Atlantic salmon, coloration, hearing and balance.
- Q 5. Write a brief essay on amphibian metamorphosis.
- Q 6. Write an essay on the Chelonia.
- Q 7. Give an account of the skeletal organisation of the carinate birds.
- Q 8. Give a detailed account of the ungulates (Order Artiodactyla and Order Perissodactyla).
- Q 9. Compare and contrast the mammalian subclasses Prototheria, Metatheria and Eutheria.