

Ollscoil na hEireann, Gaillimh
National University of Ireland, Galway

Semester II Examinations, 2004

3BS, 3ENV, 3MR.

Zoology ZO303 & ZO309

Extern Examiner : Dr John Breen

Internal Examiners : Dr. J. Dunne, Dr T.K. Mc Carthy.

Answer *five* questions

Time allowed : Three Hours

- Q 1. Write a brief essay on *either* animal orientation *or* imprinting.
- Q 2. Give an account of the social Hymenoptera, with particular reference to the honeybee *Apis mellifera*.
- Q 3. Comment on special adaptations exhibited by river dwelling macro-invertebrates and discuss the functional feeding groups to which they are generally assigned.
- Q 4. Give a critical appreciation of the community concept in ecology.
- Q 5. Discuss population cycles in animals with particular reference to red grouse.
- Q 6. Write an essay on Marine Meiofauna.
- Q 7. Write a detailed illustrated account of the chaetognaths.
- Q 8. Briefly describe the mammal species typically found in an Irish woodland community, and discuss the influence they can have upon one another.
- Q 9. Describe the likely evolutionary origins of the various marine mammal groups, and describe the features common to all marine mammals that allow them to adopt an aquatic lifestyle.
- Q10. Briefly refer to the factors affecting the distribution of marine planktonic animals and describe in detail the causes of plankton patchiness.