

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

FIRST MEDICAL EXAMINATION AUTUMN 2002

Human Biology I

Extern Examiner : Professor Maciej Zalewski

Intern examiner : Professor N.P. Wilkins

Time allowed : Two Hours

Answer *three* questions

- Q 1. What are the main functions of the cell membrane? Explain with a diagram why it is called a lipid bi-layer.
- Q 2. Describe how impulses are transmitted along the axon of the neuron. How is impulse directionality controlled?
- Q 3. Write a short essay on the pituitary gland.
- Q 4. Give an account of the life cycle of the malarial parasite. How may its spread be controlled?
- Q 5. Describe the process of evolution by natural selection.