

NATIONAL UNIVERSITY OF IRELAND, GALWAY
Ollscoil na hÉireann, Gaillimh

Summer Examinations, 2000
B.Sc. (Anatomy)
Anthropology Paper
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Dr. B. Wilkins
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Paper II; Time Allowed 3 hours

Use a separate answer book for each section.

SECTION A (COMPULSORY QUESTION)

1. Write a general essay on the evolution of the brain.

SECTION B Answer two of the following questions

2. Write **notes** on the following:
 - (a) The mitochondrial genome
 - (b) Molecular genetic techniques in anthropological research.
3. Answer **both** parts of this question:
 - (a) Outline the main disease processes detectable in anthropological specimens.
 - (b) Write a note on Mummification
4. Outline the changes in the postcranial skeleton in response to bipedalism

SECTION C VERTEBRATE EVOLUTION

Answer one of the following two questions:

5. Write notes on **three** of the following:
 - (a) The chordate bauplan
 - (b) Heterochrony
 - (c) Natural selection
 - (d) Origin and evolution of the tetrapod limb
 - (e) The geological timescale and the appearance of vertebrate classes.
6. Write an essay on the influence of arboreal life in the evolution of man.