

UNIVERSITY COLLEGE LONDON

UNIVERSITY OF LONDON

EXAMINATION FOR INTERNAL STUDENTS

FOR THE FOLLOWING QUALIFICATIONS:

M.Sc.

**Health Sciences C114: Skeletal Tissue Remodelling, Repair,
Regeneration**

COURSE CODE	:	HESCC114
UNIT VALUE	:	0.5
DATE	:	06-MAY-04
TIME	:	10.00
TIME ALLOWED	:	3 Hours

Answer any **FOUR** out of **SIX** (20 marks for each question)
Answer **EACH** question in a **SEPARATE** book

Use diagrams to illustrate your answers where possible

1. Describe the age related changes in the bony skeleton with emphasis on long bones.
2. Outline age related changes to mechanical properties of tendon and the functional implications.
3. Describe the cellular processes involved in remodelling and modelling of bone.
4. Write a critical account of the factors involved in indirect bone repair.
5. Define the conditions for an "ideal" osseomechanical integration of a prosthetic implant in a long bone.
6. Describe the functional effects of intervertebral disc degeneration.