

UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For the following qualification:

M.Sc.

**HEALTH SCIENCES C114:
SKELETAL TISSUE REMODELING, REPAIR, REGENERATION**

COURSE CODE	:	HESCC114
UNIT VALUE	:	0.50
DATE	:	23 May 2003
TIME	:	10. 00 am
TIME ALLOWED	:	3 hours

03-C0689-3
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TURN OVER

**HEALTH SCIENCES C114:
SKELETAL TISSUE REMODELING, REPAIR, REGENERATION**

Answer any **FOUR QUESTIONS** (20 marks for each answer)

Answer **EACH** question on a **SEPARATE ANSWER BOOK**
Use diagrams to illustrate your answers where possible

- 1) Give an account of the aetiology of osteoporosis and evidence based strategies (which could be implemented) for its prevention.
- 2) Describe the differences in matrix composition and architecture between bone and tendon with correlation to their different functions in vivo.
- 3) Describe the age and sex related changes with a particular emphasis on long bones. Recommend strategies to prevent or delay some of these effects.
- 4) Write a scientific based account on degeneration of articular cartilage with an emphasis on age and site related changes
- 5) Describe the key clinical and pathological differences between rheumatoid arthritis and osteoarthritis