

UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For the following qualification:

B.Sc. (Intercal)

**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

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TURN OVER

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

Answer any **FOUR QUESTIONS** (20 marks for each answer)
Use diagrams to illustrate your answers when appropriate

Answer **EACH** question in a **SEPARATE ANSWER BOOK**

- 1) Describe the general effects of long-term space flight on the musculoskeletal system placing particular emphasis on bone. Recommend strategies you would employ to prevent these effects.
- 2) Describe the hierarchical structure of tendon. What is the role of crimp in tendon function?
- 3) Describe the structure of tendon attachment to bone and muscle and the relevance of these structures to functional requirements.
- 4) Describe the changes in tendon structure and function with both maturation and ageing.
- 5) Describe age related degeneration of articular cartilage and it's effect on function.
- 6) Describe how the structure of a joint contributes to its load bearing function.