

# UNIVERSITY COLLEGE LONDON

*University of London*

## EXAMINATION FOR INTERNAL STUDENTS

*For the following qualifications :-*

*B.Sc.*

### **B.Sc. Podiatry Compulsory Module: Orthotics and Prosthetics (Year 1)**

COURSE CODE : **PODY0001**

UNIT VALUE : **0.00**

DATE : **10-MAY-02**

TIME : **14.30**

TIME ALLOWED : **2 hours**

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**TURN OVER**

PODY 001

B.Sc. Podiatry Compulsory Module: Orthotics and Prosthetics (Year 1)

May 2002

Time for Examination:  
(2 hours)

**EXAMINATION INSTRUCTIONS**

**Please start each question on a separate sheet in the answer book.**

**SECTION A: One compulsory question**

**SECTION B: Answer one question ONLY from two in this section**

**SECTION C: Answer one question ONLY from two in this section**

**You should answer a total of THREE questions for this examination.**

**Answer each question on a separate sheet.**

**TURN OVER**

### **SECTION A: Compulsory question**

- 1 What factors need to be considered before prescribing an orthosis for a patient? The answer should include an explanation of each. (20)

### **SECTION B: Answer one question ONLY from this section**

- 2 An elderly patient with a lack of fibro-fatty pad and cold feet presents with diffuse plantar callus over all metatarsal heads of both feet.

Describe the modified Frelen insole, which could be manufacture for this patient. In the answer include how the pattern and the structure and function of the materials would be used to manufacture the device (do not include details of the manufacturing process in your answer). (20)

- 3 A model of a patient's foot is presented in which it is noticed that the forefoot is inverted in relation to the rearfoot.

Describe in detail the manufacturing process involved in returning the heel to a perpendicular position, using a suborthalene neutral shell with extrinsic posting. (20)

### **SECTION C: Answer one question ONLY from this section**

- 4 a) Describe in detail the method of taking a negative neutral cast of a foot using plaster of Paris. (10)

b) Explain how to make and modify the positive model of that foot. (10)

- 5 Describe all the factors needed to consider when evaluating a negative neutral cast of the foot. In the answer explain why it is necessary to evaluate the negative cast. (20)

**END OF PAPER**