

**UNIVERSITY COLLEGE LONDON**

University of London

**EXAMINATION FOR INTERNAL STUDENTS**

For The Following Qualification:-

*B.Sc.*

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

**COURSE CODE : PODY0001**

**UNIT VALUE : 0.00**

**DATE : 19-MAY-04**

**TIME : 10.00**

**TIME ALLOWED : 2 Hours**

PODY0001

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

May 2004

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 Describe and explain the issues which need to be taken into consideration before prescribing an orthotic device. (20)

**SECTION B: Answer ONE question ONLY from this section**

- 2 An elderly female patient presents with diffuse plantar callus and cold feet.
- Describe the method of taking a pattern for a simple insole for this patient, using the static template method. Describe the instructions you would provide on a prescription for this device. (12)
- In the answer provide a detailed outline of the function of all the materials used in this orthosis. (Do not include details of the manufacturing process in the answer). (8)
- 3 A patient presents complaining of flat feet and you notice that the S.T.J. is excessively pronated.
- a) It is decided to make a device to control the S.T.J. motion by modifying a Frelen insole. With the aid of a diagram describe the anatomical landmarks that would be used to mark up the foot. (12)
- b) Describe the details to be provided on the prescription for manufacturing the device. (8)

**SECTION C: Answer ONE question ONLY from this section**

- 4 Give a detailed description of negative cast evaluation. In the answer describe how each of the indications cited is interpreted. (20)
- 5 In a positive model of a foot the forefoot is inverted.
- (a) Describe how the cast is marked up before manufacturing a functional orthosis and explain what each of the lines indicates. (8)
- (b) What model modifications are necessary before manufacturing an orthosis? (4)
- (c) Describe how an EVA shell is constructed with extrinsic posting (do not give detail of the manufacturing process). (8)

**END OF PAPER**