UNIVERSITY COLLEGE LONDON

University of London

EXAMINATION FOR INTERNAL STUDENTS

For The Following Qualification:-

B.Sc.

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Health Sciences HSC36: Podiatric Anatomy and Biomechanics (II)

COURSE CODE	: HESC0036
UNIT VALUE	: 0.50
DATE	: 16-MAY-06
TIME	: 10.00
TIME ALLOWED	: 2 Hours

HSC36 PODIATRIC ANATOMY AND BIOMECHANICS UNIT (II) Second year examination (2 hours) May 2006

Answer <u>one</u> question from each section. Answer <u>four</u> questions in total. Answer each question in a <u>new</u> answer booklet. Write your candidate number on each answer booklet

Section A Neuroanatomy

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1	a)	Describe with the aid of diagrams the arterial supply to the brain.	(10)
	b)	Discuss why occlusion of the middle cerebral artery may lead to sensory and motor deficits and describe the affects on the upper and lower limbs.	(10)
2	De cor	scribe in detail and with the aid of diagrams the anatomy of the spinal d.	(20)

Section B Pathomechanics

1	efoot varus is a common aetiology of Posterior tibial tendon function. Discuss this statement.	(20)
2	Explain the term "compensatory sub talar joint pronation" and discuss why it occurs.	(12)
	Discuss why compensatory pronation may be symptomatic or asymptomatic.	(8)

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Section C Anatomy

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1	a)	Describe the anatomy of the ankle joint. Include both bony and soft tissue structures in your answer.	(15)
	b)	Discuss why lateral ankle sprains are a common ankle injury.	(5)
2	D de	scuss why heel pain is a common presenting complaint. Include etailed discussion of the relevant anatomy in your answer.	(20)
3	a)	Describe in detail the anatomy of the 1 st MTPJ and Hallux.	(10)
	b)	Discuss how the action of the muscles that insert upon the Hallux allow normal function.	(10)
Sect	ion	D Functional Anatomy	
1	a)	With reference to function, discuss the anatomy of the medial longitudinal arch.	(10)

b) Discuss the change in anatomy in the weight-bearing pronated foot.

(10)

- 2 a) Discuss the action of the foot in the stance phase of gait with (14) reference to the subtalar joint and long axis of the MTJ.
 - b) What mechanisms ensure that the foot is a rigid lever in the propulsive phase? (6)

END OF PAPER