



PROGRAM : BACCALAUREUS TECHNOLOGIAE PODIATRY

SUBJECT : PODIATRIC ORTHOTICS THEORY II

CODE : PKSD211

DATE : DECEMBER EXAMINATION 2014

DURATION : 120 MINUTES

TOTAL MARKS : 115

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MODERATOR : MR S. NTULI

NUMBER OF PAGES : 3

INSRTUCTIONS TO CANDIDATES:

ANSWER ALL QUESTIONS.

WRITE NEATLY AND LEGIBLY MISSING A LINE SPACE BETWEEN QUESTIONS

MARKS WILL BE ALLOCATED FOR A CLEAR AND LOGICAL EXPOSITION OF THE ANSWER

PLEASE HAND IN ALL QUESTION AND ANSWER PAPERS TO THE INVIGILATOR

QUESTION 1

1.1 Define

- a) Supination (1x2=2)
- b) Functional foot orthosis (1x2=2)
- c) Accommodative orthosis (1x2=2)
- d) compensation mechanism (1x2=2)

1.2 List two muscles responsible for plantarflexion of the foot including their anatomical positions of insertion and origin. (3x2=6)

1.3 Briefly discuss the principles behind the supination resistance test. (5x2=10)

1.4 Name and describe 3 pathological gait patterns. (3x2=6)

1.5 Define STJNP (1x2=2)

1.6 Briefly discuss how you locate STJNP? (1x3=3)

[35]

QUESTION 2

2.1 Discuss the pathomechanics of forefoot varus when pronation is available (10x1=10)

2.2 What are the symptoms of forefoot valgus (5x1=5)

2.3 The gait cycle is divided into the stance and swing phase. The stance phase is further subdivided into three key phases during gait, name and briefly describe these phases? (3x3=9)

2.4 Briefly describe your understanding of the sagittal plane facilitation paradigm (1x5=5)

2.5 What are some of the compensatory mechanisms for a sagittal plane block? (4x1=4)

2.6 List at least six important factors to consider when evaluating a negative cast (6x1=6)

2.7 What are the main purposes of modifying a positive cast (6x1=6)

2.8 List and describe five important characteristics of materials, to take into consideration when prescribing an orthosis/simple innersole (5x2=10)

[55]

QUESTION 3

3.1 What are the indications of the following devices?

- a) PMP with a medial wing/aperture (3x1=3)
- b) Plantar oval (3x1=3)
- c) Accommodative orthosis (4x1=4)

3.2 Describe the dimensions of the following devices

- a) Medial forefoot wedge (6x1=6)
- b) Lateral Hindfoot wedge (4x1=4)
- c) Root device (4x1=4)

3.3 give two advantages and disadvantages of accommodative orthosis (2x2=4)

3.4 What are the main indications of therapeutic foot wear (4x1=4)

[25]

Total Marks: 115