

PROGRAM : BACCALAUREUS TECHNOLOGIAE

PODIATRY

SUBJECT : PODIATRIC MEDICINE I THEORY

CODE : HPMA 111

DATE : DECEMBER 2014

DURATION : 180 MINUTES

WEIGHT 50:50

TOTAL MARKS : 173

EXAMINER MS. F. CASSIM

MODERATOR : MR. S. NTULI

NUMBER OF PAGES : 4 PAGES

INSTRUCTIONS

- 1. PLEASE ANSWER ALL QUESTIONS
- 2. WRITE NEATLY AND LEGIBLY.
- 3. LEAVE A LINE SPACE BETWEEN QUESTIONS
- 4. NUMBER QUESTIONS CLEARLY
- 5. MARKS WILL BE ALLOCATED FOR LOGICAL EXPOSITION OF ANSWERS
- 6. PLEASE HAND BOTH YOUR QUESTION PAPER AND ANSWER SHEET TO THE INVIGILATOR

SECTION A

Read the case study below and answer the questions which follow:

Mrs Jones is a 67 year old patient who presents to the Podiatry Clinic. She complains of cramping pain in her calf muscles when she walks. The right leg is much worse than the left. On history taking you elicit that the pain has been present for 4 months and has gotten progressively worse. Mrs Jones suffers from hypertension and smokes 15 cigarettes a day. She has smoked since the age of 15. On observing Mrs Jones legs you notice that there is oedema (swelling) of the ankles. The colour of her skin appears dusky red and the skin appears very thin and paper-like. Mrs Jones indicated that if she gets cuts or sores on her legs that they take very long to heal.

1.1 What system are you most likely to primarily assess?

1.2 Give reasons for your answer in 1.1 above.

2. Given the function of the system identified in 1.1 above, explain in your own words why you think Mrs Jones is experiencing calf pain.

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3. Which clinical tests are you most likely to perform in order to assess this system?

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4. If there was a potential problem with the system you identified in 1.1 above what are you likely to find on clinical examination.

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SECTION B

Read the case study below and answer the questions which follow:

A 14 year old patient visits the Podiatry Clinic complaining of painful ankles. He is currently in high school and participates actively in soccer and athletics. The patient regularly injures himself as he trips and falls over his ankles. The clinician in charge requests that you complete a thorough orthopaedic assessment, biomechanical evaluation and gait analysis. On gait analysis you note that the patient pronates excessively.

1.1 In your own words define what you understand by the term "biomechanics."
2 Differentiate between the terms "pronation" and "supination."
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3 Name the various phases of the gait cycle.
5
4. What is the importance of conducting a thorough orthopaedic assessment?
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PODIATRIC MEDICINE I THEORY SUPPLEMENTARY EXAM 2014

1. W	hat is your likely diagnosis of this patient's condition?	3
2. De	escribe the various clinical presentations of this condition.	12
3. W	hat are the common risk factors associated with this condition	6
4. W	hat are the potential complications of this condition	5
5. De	escribe the management of this condition	8
6. Ex	rplain how this condition can be prevented.	6
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SECTION F

Read the case study below and answer the questions which follow:

Mrs. Bond is a retired female who is her husband's main caregiver. She complained of a painful hyperkeratotic lesion and a heloma durum that has been present on the plantar aspect of the 1^{st} and 5^{th} metatarsal heads for a period of 6 years. The patient has high blood pressure, high cholesterol, and osteoarthritis affecting both knees.

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3	Describe your management plan for Mrs. Bond's problem.	10
2	Describe the pathogenesis of hyperkeratotic lesions.	8
1	Differentiate between the different types of heloma which may present	10

TOTAL MARKS: 173