

UNIVERSITY OF CAPE TOWN
STELLENBOSCH UNIVERSITY

MMed Emergency Medicine
Primary examination

23 August 2007

Anatomy and Physiology short answer paper

0900 - 1200

This paper consists of **TEN** short answer questions. All questions are to be answered. Each question is worth 10 marks.

Answer questions in the following books:

Question	Book
1-2	1
3	2
4-5	3
6	4
7-8	5
9-10	6

ANATOMY

1. A 40 year old male presents with a deep dog bite to the anterior aspect of the right wrist over the carpal tunnel. Detail important anatomical structures which may be injured.
2. Describe the course of the facial nerve from the cerebral cortex to the face.
3. A 46 year old male presents with right middle lobe pneumonia. Describe the relevant surface anatomy. Discuss the anatomical relationships of the right middle lobe.
4. Describe the anatomy of the knee, including the ligamentous and vascular structures which may be injured in a posterior dislocation.
5. Describe the anatomy of the uterus and explain how the treatment of massive post-partum haemorrhage may be controlled while avoiding hysterectomy. Which structure must be cautiously preserved when getting this type of haemorrhage control?

PHYSIOLOGY

6. Discuss dehydration in hypothermia.
7. Discuss 10 common causes of leukocytosis in a 30 year old adult in the Emergency Department (other than infection).
8. Use a graph to explain oxygen dissociation from haemoglobin, indicating the various factors that can affect it and where it takes place.
9. Write short notes on the physiological changes associated with Continuous Positive Pressure Non Invasive Ventilation (CPAP).
10. Tabulate the main physiological changes in the three trimesters of pregnancy.