

UNIVERSITY OF CAPE TOWN
STELLENBOSCH UNIVERSITY

MMed Emergency Medicine
Primary examination

24 August 2007

Pathology and Pharmacology long answer paper

1300 - 1600

This paper consists of **THREE** long answer questions. All questions are to be answered. Each question is worth 100 marks.

Answer each question in a separate book.

1. Discuss the definition, aetiology, mechanism and pathophysiology of the four disorders of acid-base balance.

2. Discuss the general principles of using procedural sedation for therapeutic procedures in the Emergency Department, focussing on safety issues. Include in your discussion the requirements in terms of personnel, patient monitoring and the necessary equipment for the institution of a safe sedation programme in the Emergency Department.

[50]

Discuss and compare commonly used Emergency Department procedural sedation agents.

[50]

3. Discuss the Emergency Department use of Magnesium Sulphate, including advantages, disadvantages, indications, contra-indications, side-effects, pharmacokinetics, pharmacodynamics and dose.