

**University College London**

University of London

**Examination for Internal Students**

**M.Sc. Orthopaedics: Paper 1 (Trauma)**

**ORTH 0001**

**Monday 1<sup>st</sup> September 2003**

**Start: 10am**

**Time: Three hours**

Answer **THREE** out of **FIVE** questions  
Answer **EACH** on a **SEPARATE** page

1. Write short notes on **FOUR** of the following **SIX** complications of fractures:
  - a. Gas gangrene and tetanus
  - b. Deep vein thrombosis
  - c. Vascular injury
  - d. Avascular necrosis
  - e. Reflex sympathetic dystrophy
  - f. Fat embolism and fat embolism syndrome
  
2. Discuss the management of a 21 year old moped-riding Pizza Delivery Boy, who is brought to Casualty following an accident with a Grade 2 open fracture of the left femur and a closed fracture of the right tibia and fibular. He has a systolic blood pressure of 90 mmHg.
  
3. Discuss the management of hip fractures in elderly patients
  
4. Discuss the indications for intramedullary nailing of long bone fractures. Discuss giving examples from both upper and lower limb.
  
5. A young male athlete sustains a twisting injury to his right knee with an acute, immediate, massive haemarthrosis. Discuss your management of this gentleman both acutely and in the longer term.  
What is the treatment for a mid-substance rupture of the anterior cruciate ligament in such an athlete?