

UNIVERSITY COLLEGE LONDON

UNIVERSITY OF LONDON

EXAMINATION FOR INTERNAL STUDENTS

FOR THE FOLLOWING QUALIFICATIONS:

B.Sc. (Intercal)

Orthopaedics 3001: Clinical Aspects of Orthopaedics

COURSE CODE	:	ORTH 3001
UNIT VALUE	:	0.50
DATE	:	10-January-06
TIME	:	10.00
TIME ALLOWED	:	3 Hours

SECTION A

Answer **TWO** questions out of the following **THREE** (25 marks per question)
Use diagrams to illustrate your answer where appropriate

Answer each question in a **SEPARATE** book

1. A 60-year old male presents with a 3 month history of a painful soft tissue mass in the calf. It has increased in size since he first noticed it. Describe the relevant history and examination findings as well as investigations and treatment options.
2. Discuss the clinical features, radiographic appearances and investigation results that would lead to a diagnosis of an inflammatory arthritis, rather than degenerative arthritis, in a patient presenting with joint pain.
3. Discuss the measures that should be taken pre, peri and post-operatively to minimise the risk of infection following total joint arthroplasty. Discuss the investigation and treatment of a patient with a suspected infected total hip replacement.

SECTION B

Answer **SIX** questions out of the following **EIGHT** (5 marks per question)
Use diagrams to illustrate your answer where appropriate

Answer each question starting on a **NEW PAGE** of the answer book

1. Describe how current orthopaedic cementing techniques are designed to obtain optimal fixation of implants in host bone.
2. List the indications for ultrasound in the musculoskeletal system. What advantages does ultrasound have over magnetic resonance imaging (MRI)?
3. Define the term 'degenerative joint disease'. List three causes of arthritis and give relevant characteristic microscopic findings.
4. Give the treatment principles in upper limb trauma. Give 2 common examples of trauma to the upper limb and describe specific complications of the injuries.
5. Outline the management of a 50 year old lady presenting with pain and stiffness of her 1st metatarsophalangeal joint.
6. What do you understand by the term 'informed consent'? Describe the potential complications that you would discuss when consenting a patient for a total knee arthroplasty.
7. List the risk factors for deep vein thrombosis and pulmonary embolism in orthopaedic patients, and describe the prophylactic measures you would apply to high risk patients.
8. Describe the possible etiological factors that might lead to secondary osteoarthritis of the knee.