

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (ORTHOPAEDIC SURGERY) EXAMINATION
FEBRUARY / MARCH 2012

Date :- 27th February 2012

Time ; 2.00 p.m. – 4.00 p.m.

PAPER 1

Answer **all four** questions.

Answer each question in a separate book.

1. Write notes on -
 - 1.1. Fat embolism syndrome
 - 1.2. Surgical site infection

2.
 - 2.1. What features in a plain radiograph are useful to diagnose and differentiate bone tumours ?
 - 2.2. What are the contraindications to the use of a MRI scan ? Why ?
 - 2.3. List the different methods of evaluating bone density in a patient who has sustained a hip fracture.
 - 2.4. What are the uses of ultrasound in orthopaedics ?

3. Write notes on –
 - 3.1. Carpal Tunnel Syndrome
 - 3.2. Osteonecrosis

4.
 - 4.1. Illustrate the different layers of the normal physis. Indicate which layer is affected in a physeal fracture separation and why ?
 - 4.2. Outline the Salter-Harris classification for grading of physeal fracture.
 - 4.3. Outline orthopaedic procedures which are used to modify skeletal growth of long bones.
 - 4.4. Outline the methods used to modify growth of the spine.

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FEBRUARY / MARCH 2012

Date :- 28th February 2012

Time : 9.30 a.m. – 11.30 a.m.

PAPER II

Answer all four questions.

Answer each question in a separate book.

1. An 18 year old boy presented with pain and swelling of his left knee following an injury while playing football.
 - 1.1. What features in the history and examination indicate a meniscal injury ?
 - 1.2. Outline the management of this patient with regards to meniscal injuries.
 - 1.3. Outline the presentation and treatment of other meniscal pathologies that could occur in any other patient.

2. A 45 year old male diabetic smoker sustained a closed mid-shaft fracture of the left femur following a road traffic accident. The fracture was internally fixed with a Kuntscher nail. He defaulted from clinic follow up. Eight months later he appears in the outpatient clinic with pain and deformity of left thigh.
 - 2.1. What is the differential diagnosis ? Discuss possible factors that could have led to this condition.
 - 2.2. Discuss the management of this patient.

3. 30 year old carpenter falls from a roof and sustains a closed fracture of left femur, 2 cm below the lesser trochanter.
 - 3.1. Outline the initial management of this patient.
 - 3.2. Describe biomechanical aspects of this fracture and mention how they will influence your definitive management.
 - 3.3. Discuss the surgical treatment options of this fracture including implant selection.

4. A 60 year old house wife presents with pain in her left hip and upper thigh of 6 months duration. She had undergone a total hip replacement 10 years ago for secondary osteoarthritis following rheumatoid arthritis.
 - 4.1. How would you clinically assess and investigate this patient ?
 - 4.2. Discuss the management of this patient, if the pain is arising from the replaced hip.