

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (ORTHOPAEDIC SURGERY) EXAMINATION - SEPTEMBER 2020

Date:- 14th September 2020

Time:- 2.00 p.m. - 4.00 p.m.

PAPER I

Answer **all four (04)** questions.

Answer each question in a separate book.

Keep your answers brief and to the point.

1. Write short notes on:

1.1. Minimizing radiation exposure in the operating theatre. (30 marks)

1.2. *Staphylococcus aureus* infection in orthopaedic practice.(40 marks)

1.3. Diathermy safety. (30 marks)

2. In the past double plating of a fracture was often associated with infection and necrosis nicknamed "The dead bone sandwich"

2.1. What are the key issues with this phenomenon? (30 marks)

2.2. Explain how modern plates allow you to successfully use double plating for difficult fractures. (70 marks)

Contd..../2-

3. A 15-year-old boy is admitted on the same day with left hip pain and inability to walk following fall from a tree. He does not have any other injuries and his x-ray image is given below.



- 3.1. What is the radiological diagnosis and AO classification of this fracture? (10 marks)
- 3.2. Outline the management of this injury. (50 marks)
- 3.3. Describe the complications of this fracture. (40 marks)

Contd.../3-

4. A 28-year-old male presents to the Accident & Emergency department following a motor bike accident, found to have GCS 15/15, blood pressure 90/60 mmHg, pulse rate 118 beats/minute, respiratory rate 28/minute with no chest or limb injuries. FAST scan confirmed no solid organ injuries but possibility of a pelvic haematoma.

His x-ray is given below



- 4.1. Describe diagnosis and management of this patient for first 24 hours. (40 marks)
- 4.2. Describe the plan of definitive treatment of this injury. (60 marks)

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (ORTHOPAEDIC SURGERY) EXAMINATION - SEPTEMBER 2020

Date:- 15th September 2020

Time:- 9.00 a.m. – 11.00 a.m.

PAPER II

Answer **all four (04)** questions.

Answer each question in a separate book.

Keep you answers brief and to the point.

1. A 45-year-old male presents to Accident & Emergency Department with right foot injury following a road traffic accident. He is unable to bear weight and has swelling and deformity at midfoot area. He has no skin wounds or any other injuries.
 - 1.1. What clinical and radiological evidence will help you to confirm Lisfranc injury? (40 marks)
 - 1.2. Discuss the treatment options available and the outcome of this injury. (60 marks)
2. A 20-year-old male track athlete presents with rapidly progressing right distal thigh swelling of one month duration.

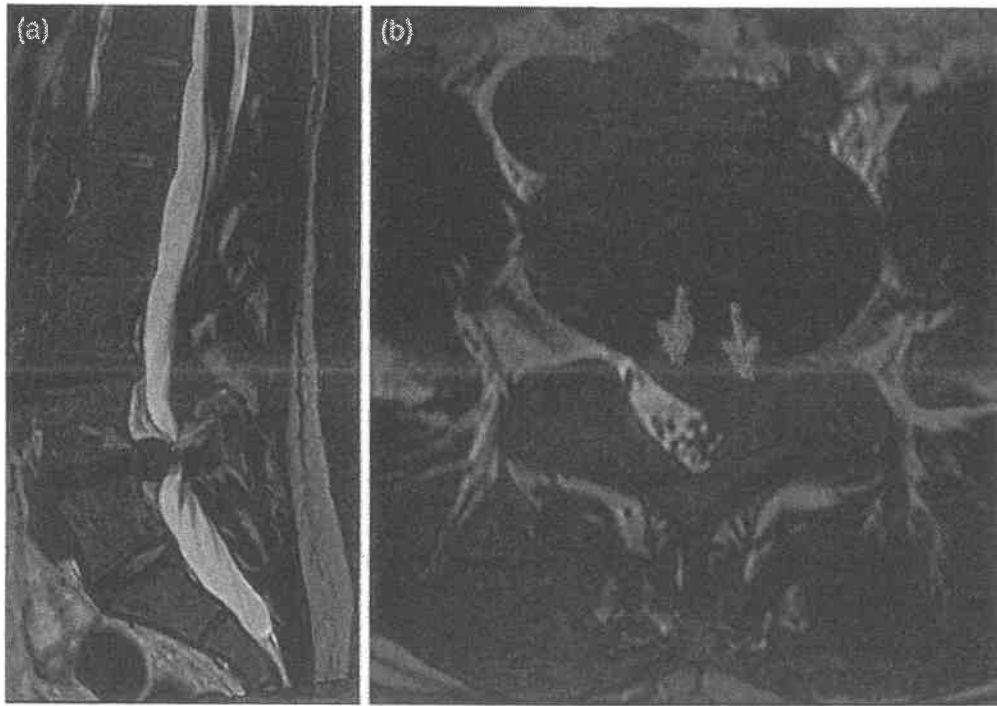
The Following is his x-ray



- 2.1. Describe the x-ray findings. (20 marks)
- 2.2. How do you further evaluate this patient? (40 marks)
- 2.3. Outline the management of this patient. (40 marks)

Contd.../2-

3. A 30-year-old previously healthy male developed sudden onset of lower back pain radiating down the left leg and difficulty in micturition following lifting a heavy object. On examination he has reduced power of dorsiflexion of left ankle.



- 3.1. Describe the above images. (20 marks)
- 3.2. What is the probable diagnosis? (10 marks)
- 3.3. How would you manage this patient? (70 marks)

Contd,.../3

4. A 23-year-old male presents to the Accident & Emergency Department following a fall with isolated injury to his left wrist. Examination reveals an ecchymosis with gross swelling over palmar aspect. He was able to move all fingers and denies any sensory impairment.

X-ray is shown below.



- 4.1. What is your diagnosis? (20 marks)
- 4.2. What are the radiological parameters that help you in the diagnosis? (20 marks)
- 4.3. Outline the management and complications of this patient. (60 marks)