

**POSTGRADUATE INSTITUTE OF MEDICINE**  
**UNIVERSITY OF COLOMBO**

**MD (ORTHOPAEDIC SURGERY) EXAMINATION – FEBRUARY 2020**

**Date:-** 24<sup>th</sup> February 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. You are told that out of the 10 elective total knee replacements that were performed in your unit in the last month, two cases have had a periprosthetic infection.
  - 1.1. Enumerate the steps you would take to investigate the source of infection. (40 marks)
  - 1.2. What standards of practice would you propose to reduce the risk of infection? (60 marks)
  
2. A 23-year-old playing football has a tackle and falls complaining of pain in left leg. In the next hour he developed swelling in the leg and presents to the Accident & Emergency Department with pain out of proportion on passive movement of the toes. You are called to see the patient.
  - 2.1. What is the likely diagnosis? (10 marks)
  - 2.2. How will you investigate this patient? (30 marks)
  - 2.3. What will be your next steps in the management? (60 marks)

Contd..../2-

3. A 55-year-old lady with recent onset of back pain has presented with bilateral distal radius fractures following a fall from standing height.
  - 3.1. Describe evaluation of this patient in relation to osteoporosis. (40 marks)
  - 3.2. Discuss different pharmacological options available for treatment of this patient. (40 marks)
  - 3.3. What steps would you implement to reduce the risk of osteoporotic fractures in the future? (20 marks)
  
4. Write notes on:
  - 4.1. Properties and uses of bone cement. (30 marks)
  - 4.2. Signs, symptoms and management of Cauda Equina syndrome. (30 marks)
  - 4.3. Angular deformities of shaft of tibia in children. (40 marks)

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**Date:-** 25<sup>th</sup> February 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 your answers brief and to the point.

1. A 40-year-old carpenter fell on an outstretched hand from 10 feet height and presented with pain and swelling of his dominant right wrist. He was found to have an intra-articular distal radius fracture.
  - 1.1. Enumerate classifications of intra articular fractures of distal radius. (20marks)
  - 1.2. What are your options to manage these fractures? (60 marks)
  - 1.3. List possible complications. (20 marks)
  
2. A 30-year-old man has a motor cycle accident and presents with an isolated displaced mid shaft fracture of the left femur. He is taken to the operation theater and has a reamed intra medullary nail of his femur. Two hours after the operation, the nurse in recovery notices that the patient has become breathless. You are called to attend this patient.
  - 2.1. What are your possible differential diagnoses? (30 marks)
  - 2.2. How will you confirm your diagnosis? (30 marks)
  - 2.3. What would be the line of management? (40 marks)

Contd..../2-

3. A 13-year-old over weight boy otherwise fit and well, presents with a limp. He is now struggling to weight-bear on his left leg. He has also complained of left knee pain on and off for last 3 months. His parents doubt that his left leg has become short.
  - 3.1. What are the possible causes and how your clinical and radiological features would lead to a diagnosis? (30 marks)
  - 3.2. How would you manage this patient? (50 marks)
  - 3.3. What are the possible complications can he develop? (20 marks)
  
4. A 22-year-old rugby player presents with fourth episodes of anterior dislocation of his left shoulder within the last two years. His Beighton score is 0/9. He is worried that he may not be able to pursue his career.
  - 4.1. How will you clinically assess this patient? (30 marks)
  - 4.2. What relevant investigations will you request? (30 marks)
  - 4.3. What options of treatment would you discuss with him? (40 marks)