

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (ORTHOPAEDIC SURGERY) EXAMINATION –
FEBRUARY/MARCH 2018

Date :- 26th February 2018

Time :- 2.00 p.m. – 4.00 p.m.

PAPER I

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

Answer each question in a separate book.

1. A newly diagnosed patient with an advanced malignancy with multiple pulmonary metastases should receive dedicated palliative care services
 - 1.1. Define palliative care and who should be involved in the delivery. (50 marks)
 - 1.2. Discuss the essential components of the palliative care. (50 marks)
2.
 - 2.1. Outline the key steps in the assessment of 4 year old child with spastic diplegic cerebral palsy. (40 marks)
 - 2.2. List the important clinical tests to assess lower limbs in this child. (30 marks)
 - 2.3. Describe how you differentiate “spasticity” from “contracture” and identify “hips at risk” in these children. (30 marks)
3. Describe the measures you would take to minimize the risk of deep vein thrombosis in total hip arthroplasty and justify. (100 marks)
4. Discuss radiation protection in the operating room during orthopaedic surgery. (100 marks)

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MD (ORTHOPAEDIC SURGERY) EXAMINATION –
FEBRUARY/MARCH 2018

Date :- 27th February 2018

Time :- 9.00 a.m. – 11.00 a.m.

PAPER II

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

Answer each question in a separate book.

1. A 23 year old foot ball player while kicking on the ball with his right foot experienced sudden severe left knee pain. The left knee swelled on the next day morning and now, one month later, he is unable to continue sports due to medial knee pain. On clinical examination ACL and PCL intact.
 - 1.1. List the differential diagnoses. (30 marks)
 - 1.2. Discuss how would you manage each condition. (70 marks)

2. An obese 50 year old lady is referred to you by the general surgeon with a six month history of painless swelling and increasing deformity of her right ankle and foot. She has recently noticed a feeling of instability of the right ankle on weight bearing. She cannot recall any trauma to her right ankle. She is on treatment for Type 2 diabetes for last 12 years. The radiologist has reported the x-ray findings are consistent with Charcot's arthropathy.
 - 2.1. Describe your physical examination and expected findings. (40 marks)
 - 2.2. What would you expect to see on a plain x-ray of right ankle and foot? (30 marks)
 - 2.3. Discuss your treatment of this patient's right ankle and foot. (30 marks)

3. A 29 year old carpenter fell off a ladder and sustained injury to right elbow. He was admitted to the Accident & Emergency Department (A & E) in the evening. Registrar A & E has diagnosed postero-lateral dislocation of the elbow joint and relocation was done under sedation. Right elbow was immobilized in a POP back slab.

Next day morning you were called to see the patient as there was a doubt regarding the reduction. Post reduction x-ray shows non-concentric reduction with coronoid process fracture and a radial head fracture.

How would you manage this patient? (100 marks)

4. A 76 year old male elephant keeper while walking by the side of a tusker in the Perahara procession accidentally injured by the elephant's tusk hitting on his left chest and falling on to the ground. He was brought to Accident & Emergency Department on a stretcher to a tertiary care hospital within 20 minutes. On primary survey, he was found to have multiple rib fractures and closed fracture of right humeral neck (11A2.2). Pulse rate 85/minute, blood pressure 140/95 mmHg. There were no external wounds. He is on antihypertensive and hypoglycaemic medications.
- 4.1. Discuss your initial management of this patient. (60 marks)
- 4.2. Discuss your management of the proximal humerus fracture. (40 marks)