

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (ORTHOPAEDIC SURGERY) EXAMINATION – FEBRUARY 2017

Date :- 20th February 2017

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 75 year old man underwent total hip replacement surgery under spinal anaesthesia. 48 hours later he is found to be confused.
 - 1.1. Provide a comprehensive list of probable causes for his confusional state. (30 marks)
 - 1.2. Describe how you would determine the cause for his confusion. (40 marks)
 - 1.3. Outline the principles of management of the most common electrolyte problem which can give rise to acute confusion in post-operative period. (30 marks)
2. Discuss the principles of evaluation and correction of deformities in primary total knee arthroplasty. (100 marks)
3.
 - 3.1. Describe the clinical features of symptomatic lumbar disc prolapse in relation to the regional anatomy of the lumbar canal. (80 marks)
 - 3.2. Which clinical features indicate the need for urgent surgical intervention? (20 marks)
4.
 - 4.1. Enumerate the possible sites for harvesting autologous bone graft. (20 marks)
 - 4.2. Describe the potential complications that may occur in each situation. (80 marks)

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Date :- 21st February 2017

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 35 year old male fell from a tree and sustained closed fractures of mid shaft of femur and tibial plateau on the same side.
 - 1.1. How do the principles of management of these two fractures differ from each other? (50 marks)
 - 1.2. Discuss the principles of implant selection in these two situations. (30 marks)
 - 1.3. In what situations would you choose to plate the femur in this patient? (20 marks)

2. A 2 year old child is referred to you from the paediatric unit in your hospital with a history of high fever and refusal to use left lower limb for three days prior to admission.
 - 2.1. Discuss how you confirm your clinical diagnosis of septic arthritis of hip joint. (50 marks)
 - 2.2. Describe your plan of management of this child. (50 marks)

3. You are called to the emergency department to see a moderately obese 56 year old man sent in by his doctor with a diagnosis of cellulitis of the forearm. You are told that he scratched his arm several days ago. He is diabetic, and his cellulitis has extended 4 cm in the two hours since arrival. His pain has not been controlled by 20 mg morphine.

On examination he has a tensed swelling increased warmth woody induration and some small blisters affecting his mid forearm. He is febrile, tachycardic, hypotensive and is in obvious distress.

- 3.1. What are the features of the presentation that concern you and why. (20 marks)
- 3.2. Discuss your differential diagnosis with emphasis on the discriminating clinical features for each of them. (40 marks)
- 3.3. What is your principle diagnosis? Describe your treatment priorities for this condition. (40 marks)
4. Write notes on-
- 4.1. Heterotrophic ossification in orthopaedic practice and its management. (60 marks)
- 4.2. Tranexamic acid and its usage in orthopaedic surgery. (40 marks)