

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

**MD (ORTHOPAEDIC SURGERY) EXAMINATION**  
**FEBRUARY / MARCH 2011**

Date :- 28<sup>th</sup> February 2011

Time ; 2.00 p.m. – 4.00 p.m.

**PAPER 1**

**Answer all four questions.**

**Answer each question in a separate book.**

1.
  - 1.1. Explain the indications for amputation in a limb.
  - 1.2. Discuss the principles involved when selecting the level of amputation.
  
2.
  - 2.1. Briefly describe the healing process in bone following a fracture.
  - 2.2. Discuss the effect of the various methods used in the treatment of fractures on bone healing.
  
3. Discuss post-operative pain relief in orthopaedic procedures.
  
4. Write notes on :
  - 4.1. The pathophysiology of diabetic foot complications.
  - 4.2. The diagnosis of a vascular injury in limb trauma.

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**FEBRUARY / MARCH 2011**

Date :- 1<sup>st</sup> March 2011

Time : 9.30 a.m. – 11.30 a.m.

**PAPER 1I**

**Answer all four questions.**

**Answer each question in a separate book.**

5. A 25 year old professional footballer sustains an injury to the anterior cruciate ligament.
  - 5.1. Describe the features on the history which would point to this Diagnosis.
  - 5.2. Describe how you would explain the possible treatment options to this patient and his coach.
  
6. A newborn female is diagnosed as having a dysplastic hip.
  - 6.1. Describe the features in the history, examination and investigations which would have led to this diagnosis.
  - 6.2. Discuss the management of the child in the first six months.
  - 6.3. After being lost to follow up, the child is brought back at 18 months with the hip dislocated. Discuss the management.

7. A 21 year old rugby player walks off the field after sustaining an injury to his neck and is admitted to the accident department.
  - 7.1. What features in the history and examination would suggest an injury to the cervical spine ?
  - 7.2. What features would you need to look for on the plain X-rays to exclude a significant injury ?
  - 7.3. the X-ray shows that the body of C5 has subluxed forwards on C6 by more than 50%. Discuss the diagnosis and treatment.
  
8.
  - 8.1. List the complications of total knee replacement in a 65 year old osteoarthritic patient.
  - 8.2. What actions would you take to keep these complications to a minimum ?