

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (ORTHOPAEDIC SURGERY) EXAMINATION – JULY 2015

Date :- 27th July 2015

Time :- 2.00 p.m. – 4.00 p.m.

PAPER I

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

Answer each question in a separate book.

1. An orthopaedic nurse sets up a normal saline infusion and then administers cefuroxime via the side port of the intravenous cannula. Five minutes later, she informs the registrar in the ward that she suspects an inadvertent intra-arterial cannulation has occurred.
 - 1.1. What clinical features are suggestive of an intra-arterial injection of the antibiotic within first 10 minutes?
 - 1.2. What should the orthopedic registrar do immediately, if an intra-arterial cannulation is strongly suspected?
 - 1.3. State the basic steps in the treatment of this patient.
2. Discuss the importance of corrosion in orthopaedic implants with reference to causation and prevention.
3. Describe the principles of staging of musculoskeletal tumours.
4. Write notes on :-
 - 4.1. Bone cement
 - 4.2. Healing process in ligaments and tendons

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MD (ORTHOPAEDIC SURGERY) EXAMINATION – JULY 2015

Date :- 28th July 2015

Time :- 9.30 a.m. – 11.30 a.m.

PAPER II

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

Answer each question in a separate book.

1. A 10 year old student fell off his bicycle and sustained a closed injury to his left elbow. X ray shows apex anterior, oblique fracture of the mid ulna with anterior dislocation of the radial head. He is left handed with no distal neurovascular deficit.
 - 1.1. What is your diagnosis?
 - 1.2. How would you classify this injury? Does this classification influence your definitive treatment?
 - 1.3. What other structures (around elbow) are likely to be involved in this injury?
 - 1.4. How would you treat this child?
 - 1.5. What are the possible late deformities?

2. A 70 year old female presents with severe back pain following trivial trauma. Her X-rays reveal a compression fracture of D11 vertebra with absent right pedicle. She is neurologically normal.

Discuss the management of this patient.

Contd..../2-

3. A 68 year old female who underwent right total knee replacement 6 months ago, presents with pain, swelling and purulent discharge from her right knee. She has been on antibiotics for last 4 weeks.

Discuss the management of this patient.

4. An 11 year old obese boy presents with acute right knee pain and inability to walk. His right lower limb is shortened and externally rotated. There is pain on internal rotation of the limb.

4.1. What is the likely diagnosis?

4.2. How would you manage him?