

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (ORTHOPAEDIC SURGERY) EXAMINATION
FEBRUARY 2022

Date:- 21st February 2022

Time:- 2.00 p.m. – 4.00 p.m.

PAPER I

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

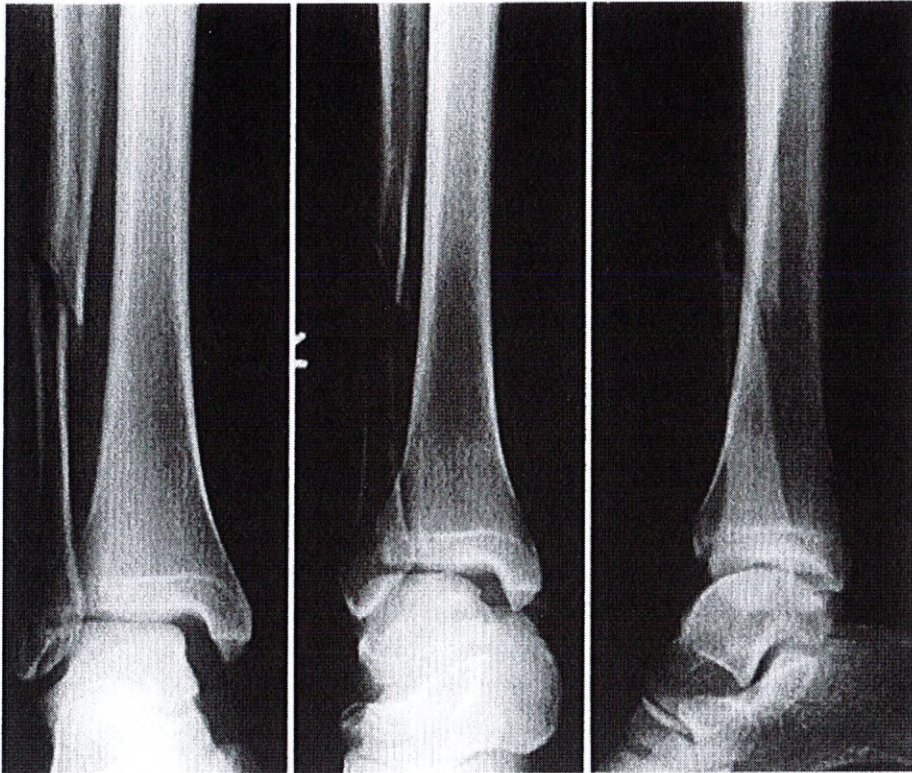
Answer each question in a separate book.

Keep your answers brief and to the point.

1. A 45-year-old timber mill worker presents following the falling of a heavy log over the lower body. He sustained a pelvic fracture and open fractures of the left femur and left tibia. His pulse rate is 140/minute and blood pressure is 80/40 mmHg. FAST scan shows a large pelvic haematoma. He has no other injuries.
 - 1.1. Describe the principles of ‘hypotensive resuscitation in trauma’.
(30 marks)
 - 1.2. Outline the fluid management and haemorrhage control of this patient.
(40 marks)
 - 1.3. Describe the factors determining the salvageability of his left lower limb.
(30 marks)

2. Regarding anterior cruciate ligament (ACL) reconstruction
 - 2.1. List the graft options available for the above. (20 marks)
 - 2.2. Describe the indications, advantages and disadvantages of each of the above mentioned in 2.1. (50 marks)
 - 2.3. Discuss the pros and cons of transtibial vs anatomical femoral tunnel placement. (30 marks)

3. A 28-year-old football player presented to the Accident and Emergency department with pain and swelling of the right ankle with inability to weight-bear following a twisting injury. He has no external wounds, and his ankle X-ray is shown below.



- 3.1. Enumerate the different classification systems of ankle fractures. (20 marks)
- 3.2. Describe your management plan for this injury. (50 marks)
- 3.3. List the possible complications (30 marks)
4. Write short notes on
- 4.1. Bracing in adolescent idiopathic scoliosis (AIS). (40 marks)
- 4.2. Chronic recurrent multifocal osteomyelitis (CRMO). (40 marks)
- 4.3. Risk factors in developmental dysplasia of hip (DDH). (20 marks)