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### MANIPAL ACADEMY OF HIGHER EDUCATION

# PG DIPMOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2018 SUBJECT: PAPER I: BASIC SCIENCES RELATED TO SPECIALITY

Monday, April 02, 2018

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

**Answer ALL questions.** 

#### ∠ Long Essays:

1. Enumerate the metaphysis which are totally or partially intraarticular. Discuss the pathology of acute haematogenous osteomyelitis, its possible complications and relevant investigations to diagnose the condition.

(15 marks)

2. Describe the Parathormone, calcium and Vitamin D homeostasis in the human body. Discuss the pathological role of their excess and deficiency on the musculoskeletal system.

(15 marks)

#### 3. Write short notes on:

- 3A. Tension band principle
- 3B. Lachman test and reverse pivot shift test
- 3C. Clinical tests for median and ulnar nerve injuries
- 3D. Bone marrow aspiration and its significance
- 3E. Prophylactic antibiotics in orthopaedics
- 3F. Tourniquets
- 3G. SACH foot
- 3H. C- reactive protein
- 3I. Stress fracture
- 3J. Electromyography

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

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## MANIPAL ACADEMY OF HIGHER EDUCATION

## PG DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2018 SUBJECT: PAPER II: TRAUMATOLOGY AND REHABILITATION

Tuesday, April 03, 2018

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL questions.
- ∠ Long Essays:
- 1. Describe the anatomy of the ankle joint in relation to the injuries around the ankle joint. Classify ankle injuries. Discuss the various management option of fractures around ankle.

(15 marks)

2. Describe the blood supply of scaphoid. Classify scaphoid fracture. How do you treat 25 year old young male with acute scaphoid waist fracture?

(15 marks)

- 3. Short Notes:
- 3A. Necrotizing Fasciitis
- 3B. Lunate dislocation
- 3C. Terrible triad of knee
- 3D. Judet's, inlet and outlet radiographs of the pelvis and their significance
- 3E. Principles of Amputation in Digits of Hand
- 3F. Yergason's test
- 3G. Gamekeeper's Thumb
- 3H. Clinical tests for Anterior Interosseous Nerve Palsy
- 31. Diagnostic tests for a patient with suspected Fat Embolism
- 3J. Blood Transfusion

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

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### MANIPAL ACADEMY OF HIGHER EDUCATION

## PG DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2018 SUBJECT: PAPER III: ORTHOPAEDIC DISEASES

Wednesday, April 04, 2018

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- ∠ Long Essays:
- 1. Describe the anatomy of intervertebral disc. What are the stages of disc prolapse? Discuss briefly about the clinical features of IVDP and management of a patient with suspected IVDP with acute urinary retention.

(15 marks)

2. Define claw hand. Enumerate various causes of claw hand. What is the pathogenesis of clawing? Discuss the principles of surgical correction of claw hand.

(15 marks)

- 3. Write short notes on:
- 3A. Radiological findings in ankylosing spondylitis
- 3B. Autologous chondrocyte implantation
- 3C. Adhesive capsulitis
- 3D. Osteoid osteoma
- 3E. Cervical rib
- 3F. Tom Smith Arthritis
- 3G. Management of foot drop
- 3H. Femoro-acetabular impingement syndrome
- 3I. Carpal tunnel syndrome
- 3J. Role of stem cells in orthopaedics

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$