

**MANIPAL UNIVERSITY****PG DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2015****SUBJECT: PAPER I: BASIC SCIENCES RELATED TO SPECIALITY**

Wednesday, April 01, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Long Essays:**

1. Describe anatomy of the radial nerve. What are the clinical features of posterior interosseous nerve paralysis? Discuss briefly the principles of Jone's procedure in radial nerve palsy.

(15 marks)

2. Describe fracture healing. Discuss different factors which influence fracture healing. Discuss the principles of Locked Compression plate.

(15 marks)

3. **Write short notes on:**

3A. Stove-in-chest

3B. Congenital pseudoarthrosis of tibia

3C. Bone morphogenic protein

3D. Pavlik harness

3E. Morton's metatarsalgia

3F. Torticollis

3G. Osteoid osteoma

3H. Baker's cyst

3I. Brodie's abscess

3J. Blount's disease

(7 marks × 10 = 70 marks)



## MANIPAL UNIVERSITY

PG DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2015

SUBJECT: PAPER II: TRAUMATOLOGY AND REHABILITATION

Thursday, April 02, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

1. Discuss the mechanism of injury, clinical features and management of injuries around the ankle joint. Discuss the classification and management of Monteggia fracture. (15 marks)
2. Define non-union. Discuss the various causes of non-union. How would you manage a case of non-union following type III open fracture of the tibia with bone loss in an adult? (15 marks)
3. Write short notes on:
  - 3A. Lachman's test
  - 3B. Types of odontoid fracture
  - 3C. Etiopathogenesis of Klumpke's paralysis
  - 3D. Game keeper's thumb
  - 3E. Classification of epiphyseal injuries
  - 3F. Functional cast brace
  - 3G. Terrible triad of elbow
  - 3H. Holstein-Lewis syndrome
  - 3I. Bohler's angle
  - 3J. Management of crush syndrome

(7 marks × 10 = 70 marks)



**MANIPAL UNIVERSITY****PG DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2015****SUBJECT: PAPER III: ORTHOPAEDIC DISEASES**

Saturday, April 04, 2015

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Long Essays:**

1. Discuss the etiopathogenesis of developmental dysplasia of hip. Discuss briefly the role of various osteotomies around hip for the management of the same.

(15 marks)

2. Discuss the causes of painful shoulder in patients older than 35 years in detail. How will you manage a case of glenohumeral arthritis and rotator cuff arthropathy?

(15 marks)

3. **Write short notes on:**

3A. Tennis elbow

3B. Haglund disease

3C. Non-union of tibia

3D. Classifications in Perthes' disease and their practical significance

3E. Treatment options in Hallux valgus

3F. Osteosarcoma

3G. Tendon transfers for ulnar claw hand

3H. Diastatomyelia

3I. Charcot's arthropathy of shoulder

3J. Investigations in prosthetic joint infection

(7 marks × 10 = 70 marks)

