

MANIPAL UNIVERSITY**PG DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2016****SUBJECT: PAPER I: BASIC SCIENCES RELATED TO SPECIALITY**

Monday, April 18, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Draw diagrams wherever necessary.**

✍ **Long Essays:**

1. Describe the anatomical and biological basis of distraction osteogenesis. Discuss about the indication and stages of distraction osteogenesis. What are the factors which influence good bone regenerate?

(15 marks)

2. Describe the aetiopathogenesis of compartment syndrome. What are the clinical signs of compartment syndrome? Discuss briefly about the methods to assess the compartmental pressures, management and complications of compartment syndrome.

(15 marks)

3. **Write short notes on:**

3A. Shoulder hand syndrome

3B. DMARDs

3C. Bulbocavernous reflex

3D. Short wave diathermy

3E. Amputations in children

3F. Austin Moore's prosthesis

3G. PET scan in orthopaedics

3H. Knee ankle foot orthosis

3I. Radial nerve palsy

3J. Fat embolism

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**PG DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2016****SUBJECT: PAPER II: TRAUMATOLOGY AND REHABILITATION**

Tuesday, April 19, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.**✍ Long Essays:**

1. Describe the blood supply of the Scaphoid. How do you manage the waist of scaphoid?
(15 marks)

2. Describe arches of foot. How do you investigate the child with cavus foot? Describe the management of idiopathic pes cavus.
(15 marks)

3. Write short notes:

3A. Fish tail deformity

3B. Zone 2 flexor tendon injury

3C. Chopart fracture-dislocation

3D. Use and abuse of locking plate

3E. The Sarmiento tibial plaster

3F. Charnley hip prosthesis

3G. Stress shielding

3H. Tibial plafond injury

3I. Synthetic cast

3J. Dupuytren's contracture

(7 marks × 10 = 70 marks)



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MANIPAL UNIVERSITY

PG DIPLOMA IN ORTHOPAEDICS (D.ORTHO) EXAMINATION – APRIL 2016

SUBJECT: PAPER III: ORTHOPAEDIC DISEASES

Wednesday, April 20, 2016

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL questions.

✍ Draw diagrams wherever necessary.

✍ Long Essays:

1. Classify bone tumours. Discuss the clinic radiological presentation, differential diagnosis and management of multiple myeloma.

(15 marks)

2. Classify Spondylolisthesis. Discuss the clinical, radiological features and management of lumbar spondylolisthesis.

(15 marks)

3. Write short notes on:

3A. Discoid lateral meniscus

3B. Ficat and Arlet staging of AVN hip and management in each stage

3C. Reverse shoulder arthroplasty

3D. Principles of tendon transfer

3E. Torticollis

3F. Sclerosing osteomyelitis

3G. Juvenile rheumatoid arthritis

3H. Role of Botulinum toxin in orthopaedics

3I. Lateral epicondylitis

3J. Morton's metatarsalgia

(7 marks × 10 = 70 marks)

