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## MANIPAL UNIVERSITY

**MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2011**

**SUBJECT: PAPER I: BASIC SCIENCES**

Monday, October 03, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

1. Describe the anatomy of the stabilizers of the gleno-humeral joint. Discuss the classification and clinical assessment of shoulder instability.

(30 marks)

2. What are the principles of tendon transfers? Describe the clinical features of median nerve paralysis. Discuss the methods of tendon transfer in median nerve paralysis.

(30 marks)

3. **Write short notes on:**

3A. Myositis ossificans progressiva

3B. Causes and treatment of pain around the heel

3C. Infantile torticollis

3D. Trigger finger

(10×4 = 40 marks)



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## MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2011

SUBJECT: PAPER II: TRAUMATOLOGY

Tuesday, October 04, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

1. Describe the applied anatomy of the hip in relation to dislocation of the hip. Discuss the classifications and its relevance in the management of the posterior dislocation of the hip.

(30 marks)

2. Describe the structure of an epiphyseal plate. Classify epiphyseal injuries. Give examples. Enumerate different complications which can occur following an epiphyseal injury.

(30 marks)

3. Write short notes on:

3A. Monteggia lesion

3B. Electromyography

3C. Erb's palsy

3D. Odontoid fracture

(10×4 = 40 marks)



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# MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2011

SUBJECT: PAPER III: GENERAL ORTHOPAEDICS

Thursday, October 06, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

1. Classify spondylolisthesis and describe each variety briefly. Describe the imaging techniques used in the diagnosis of spondylolisthesis. Describe the treatment of spondylolisthesis.

(30 marks)

2. Discuss the biomechanics of the knee in osteoarthritis. Outline the management of a 50 year old female with osteoarthritis of the knee joint.

(30 marks)

3. **Write short notes on:**

3A. Tinel's sign

3B. Jone's transfer in radial nerve palsy

3C. Osteoblastoma

3D. Fibromatosis

(10×4 = 40 marks)



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## MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2011

SUBJECT: PAPER IV: RECENT ADVANCES

Friday, October 07, 2011

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

1. Define radio- active isotopes. What should be the ideal characteristic of a bone seeking isotope? What are the commonly used radio-active isotopes used in clinical orthopaedics? Discuss their indications.  

(30 marks)
  
2. Define distraction osteogenesis? Enumerate the indications and discuss different methods of distraction osteogenesis. What are the complications and discuss how they can be prevented.  

(30 marks)
  
3. **Write short notes on:**
  - 3A. Dead arm syndrome
  - 3B. Bone bank
  - 3C. Peri-prosthetic fracture
  - 3D. Pulmonary function test in scoliosis

(10×4 = 40 marks)

