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# MANIPAL UNIVERSITY

## MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2014

### SUBJECT: PAPER I: BASIC SCIENCES RELATED TO SPECIALITY

Tuesday, October 07, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Pathophysiology of compartment syndrome. Describe C/F and management of impending volkmanns ischemia of leg.

(15 marks)

2. Classify Bed Sores. Management of bed sores in paraplegia.

(15 marks)

3. **Write short notes on:**

3A. Pseudo gout

3B. TBW principles

3C. Thomas test

3D. Bohlers angle

3E. Tourniquet in orthopaedics

3F. Complications of amputations

3G. Spina ventosa

3H. Anatomy of ACL and PCL

3I. Fracture Disease

3J. Antibiotics in Orthopaedics

(7 marks × 10 = 70 marks)

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# MANIPAL UNIVERSITY

## MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2014

### SUBJECT: PAPER II: TRAUMATOLOGY AND REHABILITATION

Wednesday, October 08, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

**✍ Answer ALL questions.**

**✍ Long Essays:**

1. Describe the clinical feature and management of 3 part fracture of proximal right humerus in a 26-year old right handed dominant person.

(15 marks)

2. Outline the management of Type-3 open fracture tibia in a 40-year old person.

(15 marks)

3. **Write short notes on:**

3A. List Monteggia variants

3B. Classification and complications of fracture of the neck of the talus

3C. Management of Odontoid fracture

3D. Tillaux fracture of tibia

3E. Classification of posterior dislocation of hip

3F. Lachman's Test for ACL

3G. Bakshi's procedure for nonunion of neck of femur

3H. Management of scaphoid nonunion

3I. Injury Severity Score (ISS)

3J. Sunderland classification of nerve injury

(7 marks × 10 = 70 marks)

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# MANIPAL UNIVERSITY

## MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2014

### SUBJECT: PAPER III: ORTHOPAEDIC DISEASES

Thursday, October 09, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

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✍ **Answer ALL questions.**

✍ **Long Essays:**

1. Management of Cerebral palsy.

(15 marks)

2. Principles in amputation surgery.

(15 marks)

3. **Write short notes on:**

3A. Renal osteodystrophy

3B. Codman Tumor

3C. Sprengel shoulder

3D. Haemophilic cyst

3E. Obstetric palsy

3F. Drug Resistance in TB

3G. Quadriceps Contracture

3H. Triple Arthrodesis

3I. Radial Club hand

3J. Failed back Syndrome

(7 marks × 10 = 70 marks)

**MANIPAL UNIVERSITY****MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2014****SUBJECT: PAPER IV: RECENT ADVANCES IN ORTHOPAEDIC SURGERY**

Friday, October 10, 2014

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Long Essays:**

1. Discuss the role of Biodegradable implants in fracture treatment.

(15 marks)

2. Describe Arthroscopic Bankart's lesion repair in a recurrent shoulder dislocation in a 26-year old athlete.

(15 marks)

3. **Write short notes on:**

3A. Tip apex index

3B. Role of Teriparatide in osteoporosis

3C. Distraction Arthrolysis

3D. LCP (Locking Compression Plate)

3E. Autologous bone marrow injection

3F. Ponsetti method for CTEV

3G. Spontaneous Osteo Necrosis of Knee (SONK)

3H. Automated Percutaneous Lumbar Discectomy (APLD)

3I. Endoscopic carpal tunnel release

3J. Coxo femoral bypass

(7 marks × 10 = 70 marks)