

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION
MS (ORTHOPAEDICS) DEGREE 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 the questions.**

✍ **Long Essays:**

1. Describe anatomy of arches of foot. Discuss the management of pes planus.
(15 marks)
2. Describe the principles of tendon transfer. Discuss the methods of tendon transfer in median nerve paralysis.
(15 marks)

3. **Write short notes on:**

- 3A. Types of knee locks in above knee caliper
- 3B. Pressure sores
- 3C. Muscle strengthening exercises
- 3D. Cartilage
- 3E. Ideal splint
- 3F. Chondroprotective drugs
- 3G. Pulmonary function test in scoliosis
- 3H. Bone graft substitutes
- 3I. Electromyography
- 3J. Phantom limb

(7 marks × 10 = 70 marks)



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MS (ORTHOPAEDICS) DEGREE 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. Write a note on the blood supply to the talus Classification of Talar fractures and management.

(15 marks)

2. Classify Pelvic fractures and write a note on the management.

(15 marks)

3. **Write a short note on:**

3A. Luxiatio erecta

3B. Bartons fracture

3C. Functional cast bracing

3D. Flexion distraction injuries to the spine

3E. Lauge Hansen Classification

3F. Gardens alignment index

3G. Management of open clavicle fractures

3H. Lisfranc Fracture

3I. Paediatric supracondylar fractures of the humerus

3J. Jones fracture

(7 marks × 10 = 70 marks)



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MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2018
SUBJECT: PAPER III: ORTHOPAEDIC DISEASES

Wednesday, April 04, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✂ **Answer ALL the questions.**

✂ **Long Essays:**

1. Discuss the management of neglected club foot.

(15 marks)

2. Discuss the management of rheumatoid arthritis.

(15 marks)

3. **Write short notes on:**

3A. Neurofibromatosis

3B. Pseudo-flexion deformity of hip

3C. Brucellosis

3D. Rugger jersey spine

3E. Ankylosis

3F. Ideal stump in amputation

3G. Dupuytren's contracture

3H. Hyperparathyroidism

3I. Chordoma

3J. Failed back syndrome

(7 marks × 10 = 70 marks)



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MANIPAL ACADEMY OF HIGHER EDUCATION
MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2018
SUBJECT: PAPER IV: RECENT ADVANCES IN ORTHOPAEDIC SURGERY

Thursday, April 05, 2018

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Long Essays:**

1. Discuss the role of Stem cell therapy in the field of Orthopaedics.

(15 marks)

2. Describe the management of osteoporotic vertebral fractures.

(15 marks)

3. **Write short notes on:**

3A. Uses of bisphosphonates

3B. Advances in management of Giant cell tumour of bones

3C. Antibiotic impregnated bone cement

3D. Hip arthroscopy

3E. Radiological evaluation of fractures of distal radius

3F. Unicompartmental knee replacement

3G. Foraminal stenosis

3H. Tissue-engineered Anterior cruciate ligament substitutes

3I. Rotator cuff tears at articular surface of shoulder joint

3J. Biologic adjuvants in fracture healing

(7 marks × 10 = 70 marks)

