

MANIPAL UNIVERSITY
MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2017
SUBJECT: PAPER I: BASIC SCIENCES RELATED TO SPECIALITY

Monday, April 03, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

Answer ALL the questions.

Long Essays:

1. What do you mean by anteversion of the femoral neck? How do you determine the degree of the anteversion of the femoral neck? Discuss its importance in the management of neglected developmental dysplasia of hip in a child aged 5 years. (15 marks)

2. What are the different types of cervical rib described? Discuss its pathology and clinical features. How will you manage a case of cervical rib? (15 marks)

Write short notes on:

- 3A. Singh's index
- 3B. Heterotopic ossification
- 3C. Neurogenic claudication
- 3D. Multiple osteochondromas
- 3E. Hydroxyapatite
- 3F. Anatomy of the growth plate
- 3G. Tarsal tunnel syndrome
- 3H. Thomas' splint
- 3I. Syme's amputation
- 3J. Role of ultrasound in Orthopaedics

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY
MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2017
SUBJECT: PAPER II: TRAUMATOLOGY AND REHABILITATION

Tuesday, April 04, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Long Essays:**

1. Describe the pathology and clinical features in recurrent dislocation of the shoulder. How would you manage this condition in a 22 year old athlete?
(10+5 = 15 marks)

2. Discuss the management of a victim of road traffic accident with traumatic Quadriplegia.
(15 marks)

3. **Write short notes:**

3A. Management of Non Union of Scaphoid Fracture

3B. Write notes on Functional Cast Bracing of fractures

3C. Reflex Sympathetic Dystrophy

3D. Compartment Syndrome

3E. Internal fixation options for fracture clavicle

3F. How will you manage a 40 year old patient traumatic Tendo Achilles rupture?

3G. Lisfranc's fracture dislocation

3H. Concept of Bridge Plating

3I. Titanium Elastic Nail

3J. Classify fracture neck of femur

(7 marks × 10 = 70 marks)



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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2017

SUBJECT: PAPER III: ORTHOPAEDIC DISEASES

Wednesday, April 05, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Answer ALL the questions.

✍ Long Essays:

1. Discuss the medical and orthopaedic management of rheumatoid arthritis. (15 marks)
2. Discuss the management of spondylolisthesis. (15 marks)

3. Write short notes on:

- 3A. Cold abscess
- 3B. Crystal arthropathy
- 3C. Trigger thumb
- 3D. Hemophilic cyst
- 3E. Heel pain
- 3F. MRSA
- 3G. Osteoid osteoma
- 3H. Neurofibromatosis
- 3I. Fibular hemimelia
- 3J. Ulnar wrist pain

(7 marks × 10 = 70 marks)



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MANIPAL UNIVERSITY

MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2017

SUBJECT: PAPER IV: RECENT ADVANCES IN ORTHOPAEDIC SURGERY

Thursday, April 06, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Long Essays:**

1. Discuss the recent trend in management in osteoporosis. (15 marks)

2. Discuss the current trend in management of rotator cuff tears especially large and irreparable massive cuff tears. (15 marks)

3. **Write short notes on:**

3A. Radiofrequency treatment in various tendinopathies

3B. Role of wrist arthroscopy in carpal injuries

3C. Femoroacetabular impingement

3D. Metal on metal hip replacement

3E. Investigation and management of prosthetic joint infection

3F. Trochanteric stabilisation plate

3G. Gene therapy in fracture healing

3H. Platelet rich plasma and sports injuries

3I. Various nerve transfer options in post ganglionic brachial plexus injury

3J. Role of TNF-alpha and Interleukins inhibitors in rheumatoid arthritis management

(7 marks × 10 = 70 marks)

