

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

Tuesday, October 03, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Describe the structure of the epiphyseal plate. Classify epiphysel injuries. Enumerate the complications of epiphyseal injuries and discuss the management of any one.

(15 marks)

2. Discuss the different surgical approaches of hip joint.

(15 marks)

3. **Write short notes on:**

3A. Gait cycle

3B. Tension band principle

3C. Tardy ulnar nerve palsy

3D. Skull traction

3E. Tumor biopsy

3F. Pseudoflexion deformity of hip joint

3G. Bladder management in spine injuries

3H. Game keeper's thumb

3I. Shoulder arthrodesis

3J. Nerve regeneration

(7 marks × 10 = 70 marks)



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

Wednesday, October 04, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

 **Answer ALL questions.**

 **Long Essays:**

1. Discuss the classification of acetabular fractures. Discuss the principles of management of fracture dislocation of hip joint in a 35 years old male.

(15 marks)

2. Discuss about metallurgy in Orthopaedics.

(15 marks)

3. **Write short notes on:**

3A. Lisfranc's fracture dislocation

3B. Odontoid fracture

3C. Femur shaft fractures in children

3D. Drill bits

3E. Avulsion fractures

3F. AO classification of fractures

3G. Epiphyseal injuries

3H. DRUJ injuries

3I. Floating shoulder injuries

3J. Flail chest

(7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY
MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2017
SUBJECT: PAPER III: ORTHOPAEDIC DISEASES

Thursday, October 05, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL the questions.**

✍ **Long Essays:**

1. Classify scoliosis. Discuss the principles of management of idiopathic scoliosis.
(5+10 = 15 marks)
2. Discuss the pathophysiology of acute Osteomyelitis. How would you evaluate and manage a case of infective non union of the tibia with intramedullary nail inside.
(5+10 = 15 marks)

3. **Short Notes:**

- 3A. Floor Reaction Orthosis
 - 3B. Principles of Tendon Transfer
 - 3C. Write notes on Serological tests for evaluation of a patient with Polyarthralgia
 - 3D. Principles of Limb Salvage Surgery
 - 3E. Slipped Capital Femoral Epiphysis
 - 3F. Describe the causes and clinical features of thoracic outlet syndrome
 - 3G. Describe ten clinical signs of Rickets
 - 3H. Distraction osteogenesis
 - 3I. Plantar fasciitis
 - 3J. Osteochondroma
- (7 marks × 10 = 70 marks)



MANIPAL UNIVERSITY**MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2017**
SUBJECT: PAPER IV: RECENT ADVANCES IN ORTHOPAEDIC SURGERY

Friday, October 06, 2017

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer ALL questions.**

✍ **Long Essays:**

1. Discuss the basis of limb salvage versus amputation in trauma.

(15 marks)

2. Discuss about management of tuberculosis of spine.

(15 marks)

3. **Write short notes on:**

3A. Loosers zone

3B. Bone bank

3C. ACL avulsion injuries

3D. Bisphosphonates

3E. MRSA

3F. MCR in Orthopaedics

3G. Computers in orthopaedics

3H. Adjuvant Chemotherapy

3I. Gene therapy

3J. Golden hour concept in trauma

(7 marks × 10 = 70 marks)

