Reg. No.				

MANIPAL ACADEMY OF HIGHER EDUCATION MS (ORTHOPAEDICS) DEGREE EXAMINATION – DECEMBER 2023 PAPER I

Monday, December 04, 2023

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essays:
- 1. Describe the anatomy of arches of foot. Classify flat foot and discuss and management in a 2 year old child.

(15 marks)

2. Discuss calcium metabolism. Discuss evaluation and management of Osteoporosis.

(15 marks)

- 3. Write short notes on:
- 3A. Ochronosis
- 3B. Vitamin c
- 3C. Stress fracture
- 3D. Anteversion of femur
- 3E. Thomas test
- 3F. MRSA
- 3G. Compound palmar ganglion
- 3H. Petit's triangle
- 3I. Bohler Braun
- 3J. Orthopaedic manifestations of neurofibromatosis



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MANIPAL ACADEMY OF HIGHER EDUCATION MS (ORTHOPAEDICS) DEGREE EXAMINATION – DECEMBER 2023 PAPER II

Tuesday, December 05, 2023

Time:	14:00 -	17:00	Hrs.
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Max. Marks: 100

Answer ALL the questions.

∠ Long Essays:

1. Describe Blood supply of scaphoid. Classify scaphoid fracture. Discuss the management of nonunion of scaphoid fracture.

(15 marks)

2. Describe etipathogennesis of compartment syndrome. Discuss the prevention and management of this condition.

(15 marks)

- 3. Write short notes on:
- 3A. Essex Lopresti fracture
- 3B. Meniscal repair
- 3C. Odontoid fracture
- 3D. Dynamic compression plate
- 3E. Flail chest
- 3F. Seat belt injuries
- 3G. Myocutaneous flap
- 3H. Mallet finger
- 3I. Heteroteophic Ossification
- 3J. Function cast bracing

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MANIPAL ACADEMY OF HIGHER EDUCATION MS (ORTHOPAEDICS) DEGREE EXAMINATION – DECEMBER 2023 PAPER III

Wednesday, December 06, 2023

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

Answer All Questions:

∠ Long Essays:

1. Discuss the classification, aetiopathology and clinical features of Tuberculous spondylitis at dorsolumbar junction. Describe the surgical management of Pott's paraplegia.

(3+3+3+6=15 marks)

2. Discuss the aetiopathology and clinical features of Osteonecrosis of Femoral Head. Describe the various investigations and management of Osteonecrosis based on Ficat and Arlet classification.

(3+3+3+6=15 marks)

- 3. Write short notes on:
- 3A. Deformities of hand in Rheumatoid Arthritis
- 3B. deQuervain's disease
- 3C. Calcitonin
- 3D. Brodie's abscess
- 3E. Radiological features of Osteosarcoma
- 3F. Prevention/Care of pressure sores in Paraplegics
- 3G. Anterior surgical approach to hip joint
- 3H. Sequelae of Tom Smith's arthritis
- 31. Spontaneous and Osteonecrosis of Knee
- 3J. Differential diagnosis of Club foot



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MANIPAL ACADEMY OF HIGHER EDUCATION MS (ORTHOPAEDICS) DEGREE EXAMINATION – DECEMBER 2023 PAPER IV

Thursday, December 07, 2023

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

Answer ALL the questions.

∠ Long Essays:

1. Discuss the clinical manifestations, Investigations and recent advances in the management of slipped capital femoral epiphysis

(15 marks)

2. Discuss the recent advances in the management of acetabular impingement.

(15 marks)

- 3. Write Short Notes on:
- 3A Tendon Transfers for foot drop
- 3B Columnar concept in Distal Radial fractures
- 3C Congenital coxa vara
- 3D Neoadjuvant therapy in Osteosarcoma
- 3E Suspensory Fixation in ACL reconstruction
- 3F Bio absorbable implants in Orthopaedics
- 3G Teriparatide in the management of Osteoporosis
- 3H Distraction histiogenesis
- 3I Stress protection phenomenon
- 3J Medial Patellofemoral ligament reconstruction

