Reg. No.
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## MANIPAL ACADEMY OF HIGHER EDUCATION MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2022 PAPER I

Friday, April 01, 2022

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- Z Long Essays:
- 1. Discuss the stages of fracture healing, physical and chemical modalities to enhance fracture healing.

(5+5+5=15 marks)

2. Enumerate the surgical approaches to the hip joint. Discuss one of the approaches in detail.

(6+9 = 15 marks)

- 3. Short Essays:
- 3A. Biofilm
- 3B. Flail chest
- 3C. Eosinophilic granuloma
- 3D. Giant cell variants
- 3E. DEXA scan (Dual Energy X-Ray Absorptiometry)
- 3F. Physeal plate structure
- 3G. Calcitonin
- 3H. Stiff hip gait
- 3I. Diabetic neuropathy
- 3J. Monitoring of Compartment Syndrome in leg

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

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#### MANIPAL ACADEMY OF HIGHER EDUCATION MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2022 PAPER II

Saturday, April 02, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essays:
- 1. Classify ankle fractures. Discuss the management of common ankle fractures.

(15 marks)

2. Classify fracture distal end of radius. List common complications. How would you manage associated distal radioulnar injury?

(15 marks)

- 3. Write short notes on:
- 3A. Rotator cuff injury repair and reconstruction
- 3B. Floating knee
- 3C. Diagnosis and management of Posterior cruciate ligament injury in a young athlete
- 3D. Rehabilitation programme for an amputee
- 3E. Management of Pathological fracture of long bones in adults
- 3F. Proximal femoral nailing for intertrochanteric fractures
- 3G. Treatment of Tendoachilles injury
- 3H. Principles of management of nonunion in long bones
- 3I. Functional cast bracing
- 3J. Classification and management of post traumatic mallet finger

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

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## MANIPAL ACADEMY OF HIGHER EDUCATION MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2022 PAPER III

Monday, April 04, 2022

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

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1. Classify Bone tumours. Write a note on management of a Giant Cell Tumour of the Distal Radius.

(15 marks).

2. Describe the aetiopathogenesis of Potts Spine a note on cold abscess and management of Potts spine of the thoraco lumbar junction in a 55yr old patient with paraparesis.

(15 marks)

- 3. Write short notes on:
- 3A. Trendelenburg test
- 3B. Kohlers disease
- 3C. Osgood schatlers disease
- 3D. Primary osteoarthritis of the knee in a 55yr old
- 3E. Ponsetti technique
- 3F. Neurological claudication
- 3G. Meniscal injury
- 3H. Dupuytrens contracture
- 3I. Gout
- 3J. Swan neck deformity

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$ 

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# MANIPAL ACADEMY OF HIGHER EDUCATION MS (ORTHOPAEDICS) DEGREE EXAMINATION – APRIL 2022 PAPER IV

Tuesday, April 05, 2022

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essays:
- 1. Discuss the clinical features, investigations and management of infected Total Knee Replacement.

(5+5+5=15 marks)

2. Describe the causes for recurrent dislocation of patella. How will you diagnose and manage a case with soft tissue abnormality causing recurrent dislocation of patella?

(5+5+5=15 marks)

- 3. Write short notes on:
- 3A. Bisphosphonates in the treatment of Osteogenesis Imperfecta
- 3B. Double bundle ACL reconstruction
- 3C. PTB
- 3D. Callotasis and applications
- 3E. Trauma scoring systems
- 3F. Autologous bone marrow injection
- 3G. Microdiscectomy
- 3H. Periprosthetic hip fractures
- Sprengel shoulder
- 3J. Safe surgical dislocation of Hip

 $(7 \text{ marks} \times 10 = 70 \text{ marks})$