Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

MS (ORTHOPAEDICS) DEGREE EXAMINATION - OCTOBER 2020

SUBJECT: PAPER I: BASIC SCIENCES RELATED TO SPECIALITY

Monday, October 05, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL the questions.
- ∠ Long Essays:
- 1. Discuss the structure of growth plate and write a note on nutritional rickets.

(6+9 = 15 marks)

2. Describe biomechanics of Hip joint. Discuss its application in Osteoarthrosis of hip joint.

(6+9 = 15 marks)

- 3. Write short note:
- 3A. Round cell tumour of bone.
- 3B. Below knee Amputation
- 3C. Myositis Ossificans.
- 3D. Olliers disease.
- 3E. Jaipur Foot.
- 3F. Spinaventosa.
- 3G. Tension Band Principle.
- 3H. Anatomy of rotator cuff.
- 31. Bone graft substitutes.
- 3J. Subacute osteomyelitis.

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MANIPAL ACADEMY OF HIGHER EDUCATION

MS (ORTHOPAEDICS) DEGREE EXAMINATION - OCTOBER 2020

SUBJECT: PAPER II: TRAUMATOLOGY AND REHABILITATION

Tuesday, October 06, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- ∠ Draw diagrams wherever necessary.
- ∠ Long Essays:
- 1. Describe the structure of physis. Classify physeal injury. Describe the management and complications of various types of physeal injuries.

(5+3+7 = 15 marks)

2. Discuss the principles of management of polytrauma patients.

(15 marks)

- 3. Write short notes on:
- 3A. Sacral fractures
- 3B. Principle, merits and demerits of locking compression plate
- 3C. Lachman's test for ACL
- 3D. Bone transport
- 3E. Terrible triad injury of elbow
- 3F. Fish tail deformity
- 3G. ASIA scoring for spinal injury
- 3H. Concept of Bridge Plating
- 31. Odontoid fracture
- 3J. Functional cast bracing

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MANIPAL ACADEMY OF HIGHER EDUCATION MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2020

SUBJECT: PAPER III: ORTHOPAEDIC DISEASES
Wednesday, October 07, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

- ∠ Long Essays:
- 1. A boy aged 8 years is complaining of pain in his left hip associated with limping since 2 weeks. How would you proceed to assess and manage him?

(5+10 = 15 marks)

2. Describe the etiopathogenesis of Gouty arthritis. Outline its management.

(5+10 = 15 marks)

- 3. Write short notes on:
- 3A. Management of osteoarthritis of medial compartment of knee in a patient aged 48 years
- 3B. Stages of Intervertebral Disc Prolapse in lumbar spine
- 3C. Management of Chronic Osteomyelitis lower end femur with bone defect
- 3D. Role of Isotope Bone scan in Orthopaedics
- 3E. Chondromalacia Patellae
- 3F. Management of diabetic foot ulcers
- 3G. Drugs used in Rheumatoid arthritis
- 3H. Sequelae of Tom Smith arthritis
- 31. Congenital thoracolumbar scoliosis
- 3J. Prognostic factors in Osteosarcoma upper end of tibia

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MANIPAL ACADEMY OF HIGHER EDUCATION

MS (ORTHOPAEDICS) DEGREE EXAMINATION – OCTOBER 2020

SUBJECT: PAPER IV: RECENT ADVANCES IN ORTHOPAEDIC SURGERY

Thursday, October 08, 2020

Time: 14:00 - 17:00 Hrs.

Max. Marks: 100

- Answer ALL questions.
- ∠ Long Essays:
- 1. ACL Injury. Write a note on.
- 1A. Acute vs. Chronic tears
- 1B. Patient Selection Indications and contraindications
- 1C. Tunnel placement
- 1D. Autograft vs. Allograft
- 1E. Synthetic Replacement

 $(3 \text{ marks} \times 5 = 15 \text{ marks})$

- 2. Impingement Syndrome of the shoulder:
- 2A. Diagnosis Clinical tests, Imaging Modalities
- 2B. Treatment Non-Operative and Operative
- 2C. Subcoracoid Impingement
- 2D. Internal Impingement

(15 marks)

- 3. Write short notes on:
- 3A. MRI
- 3B. Disc Replacement.
- 3C. Elbow replacement
- 3D. Articular Bearing Technology THR
- 3E. High Tibial Osteotomy
- 3F. Hallux Valgus.
- 3G. Bisphosphonates
- 3H. Giant cell tumour
- 31. Locking Compression Plating
- 3J. Osteochondritis Dissecans