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Paper Code: MS-041

Enrollment No.

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**M.S. Orthopaedics
EXAMINATION, May 2022**

Paper First

Basic Sciences as applied to Orthopaedics

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Describe the histological zones of growth plate. Discuss the anatomical changes which take place in Rickets & Slipped Capital femoral Epiphysis.
[20]
2. Describe the extensor mechanism of knee and factors that predispose to recurrent dislocation of patella and principal management before and after skeletal maturity.
[20]
3. Define pigmented villonodular synovitis. Describe its pathology, clinical features, diagnosis and treatment. [20]
4. Write short notes on: [5x4]
 - a) Madelung deformity
 - b) Neurogenic bladder
 - c) Orthopaedic manifestations of Neurofibromatosis
 - d) Stem cell
5. Write short notes on: [5x4]
 - a) Hydatid disease of bone
 - b) Psoriatic arthropathy
 - c) Periprosthetic infection in orthopaedics
 - d) Immuno histochemistry

28/05/2022

Printed page (s): 1

Paper Code: MS-042

Enrollment No.

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**M.S. Orthopaedics
EXAMINATION, May 2022**

Paper Second

Traumatology and Rehabilitation

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions. Draw well labeled diagrams wherever necessary.

1. Discuss the classifications, clinical features and management of fracture neck femur in a 45 years old male patient. [20]
2. Discuss classification, investigations & emergency and definitive management of acetabulum fracture. [20]
3. Classify ankle injuries. Describe the mechanism of injury and management of ankle injuries. [20]
4. Discuss classification, management & complications of distal end Radius fracture. [20]
5. Write short notes on: [5x4]
 - a) Lisfranc fracture dislocation
 - b) Fat embolism
 - c) Hoffa's fracture
 - d) Masquelet technique

30/05/2022

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**M.S. Orthopaedics
EXAMINATION, May 2022**

• Paper Third

Orthopaedic diseases

Time: Three Hours]

[Maximum Marks: 100

**Note: Attempt all questions. Draw well labeled diagrams wherever necessary.
All questions carry equal marks (10x10)**

1. Biomechanics of spine
2. Ponseti technique for club foot
3. Impingement syndrome
4. Classification system for Perthes disease
5. Differential diagnosis of anterior knee pain
6. Femoroacetabular impingement
7. Proximal femoral osteotomy
8. Margins of Tumour excision
9. Role of templating in Total Hip arthroplasty
10. Middle path regime

01/06/2022

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**M.S. Orthopaedics
EXAMINATION, May 2022**

Paper Fourth

**Recent advances in Orthopaedic surgery + General Surgery as applied to
Orthopaedics**

Time: Three Hours]

[Maximum Marks: 100

Note: Attempt all questions. Draw well labeled diagrams & flow charts wherever necessary.

1. What is bone cement? What are the indications and contraindications of its usage? What are the methods of bone cementing? Mention its complications. [25]
2. Describe the mechanism of bacterial colonization and perpetuation in Osteomyelitis after orthopaedic implant surgery. How is the situation different in tubercular infection of the musculoskeletal system? [25]
3. Write in brief about: [10x5]
 - a) High cross linked polyethylene
 - b) Biofilm
 - c) Randomised Controlled Trial (RCT)
 - d) Nuclear medicine and its application in orthopaedics
 - e) DMARDS and BIOLOGICS
