THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MS 0524] **MAY 2024** **Sub. Code: 4008**

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

PAPER IV – RECENT ADVANCES IN ORTHOPAEDIC SURGERY + GENERAL SURGERY AS APPLIED TO ORTHOPAEDICS

Q.P. Code: 224008

Time: Three Hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

1. 20 years old boy presented with rapidly enlarging swelling in his right lower thigh. How will you evaluate the Patient? Describe in detail Etiology, Pathology, Classification and Investigations of Osteosarcoma? Describe in detail the Recent advances in Limb salvage management of Osteosarcoma.

2. Draw a diagram depicting various axis of Knee Joint. How will you evaluate and manage a patient presenting with POST- TKR instability?

II. Write notes on: **(10 x 7 = 70)**

1. Osteochondritis Dissecans of the Knee and its management.
2. Modified Stoppa Approach.
3. OPLL- clinical Features and Management.
4. Endoscopic Discectomy
5. Total Elbow replacement.
6. CORA and Method of Ilizarov for deformity Correction.
7. Thoracic Outlet syndrome.
8. Dupuytren contracture.
9. Radiological features of CDH.
10. Role of Tissue Engineering in Orthopaedics.

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THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MS 1224] **DECEMBER 2024** **Sub. Code: 4008**

(OCTOBER 2024 EXAM SESSION)

M.S. DEGREE EXAMINATION

ORTHOPAEDICS

PAPER IV – RECENT ADVANCES IN ORTHOPAEDIC SURGERY + GENERAL SURGERY AS APPLIED TO ORTHOPAEDICS

Q.P. Code: 224008

Time: Three Hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

1. Evaluation and management of sepsis and septic shock.

2. Discuss in detail about the techniques of Arthroscopy of shoulder joint. Describe about recent advances in the techniques of Bankart's repair.

II. Write notes on: **(10 x 7 = 70)**

1. E-FAST.
2. Double row repair of Rotator cuff tear.
3. Kinematically aligned TKR.
4. Zirconium alloys in orthopedic Implants.
5. Inducing membrane technique.
6. Semi constrained and unconstrained Elbow prosthesis.
7. Dual mobility Total Hip Replacement.
8. Anterior Ilioinguinal approach
9. Retroperitoneal hemorrhage.
10. Recent advances in Rheumatoid arthritis management.

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THE TAMIL NADU DR.M.G.R. MEDICAL UNIVERSITY

[MS 0525] **MAY 2025** **Sub. Code: 4008**

M.S. DEGREE EXAMINATION

ORTHOPAEDICS

PAPER IV – RECENT ADVANCES IN ORTHOPAEDIC SURGERY +

GENERAL SURGERY AS APPLIED TO ORTHOPAEDICS

Q.P. Code: 224008

Time: Three Hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

1. Pre operative planning in Total Knee Replacement (TKR). Discuss about TKR in valgus knee. Briefly mention on kinematic principle, application of Robotic knee and post operative rehabilitation.

2. Discuss Aetiology, Pathology, Clinical, Radiological features and Management of slipped capital femoral epiphysis.

II. Write notes on: **(10 x 7 = 70)**

1. Ewing's sarcoma.
2. Lumbar canal stenosis.
3. Trigger finger.
4. Immuno oncology.
5. CT guided biopsy.
6. Modified Jones tendon transfer.
7. Kyphoplasty.
8. Metallosis.
9. Bone Marrow Aspirate Concentrate (BMAC).
10. Hallux valgus.

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THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[MS 1025] **OCTOBER 2025** **Sub. Code: 4008**

M.S. DEGREE EXAMINATION

ORTHOPAEDICS

PAPER IV – RECENT ADVANCES IN ORTHOPAEDIC SURGERY + GENERAL SURGERY AS APPLIED TO ORTHOPAEDICS

Q.P. Code: 224008

Time: Three Hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

1. Role of minimum invasive techniques in orthopaedics and portals of knee arthroscopy and the role of arthroscopy in the management of intra articular fractures.

2. How will you proceed with a young man with recurrent dislocation of shoulder and write the management.

II. Write notes on: **(10 x 7 = 70)**

1. Periprosthetic hip fractures.
2. Madras foot.
3. Medical management of osteoporosis.
4. Extended trochanteric osteotomy.
5. Aseptic loosening.
6. Rehabilitation of paraplegic patient.
7. Management of cartilage defects.
8. Rehabilitation of ACL reconstructed knee.
9. Below knee prosthesis.
10. Day care surgical procedures in orthopaedics.

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THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[MS 0526] **MAY 2026** **Sub. Code: 4008**

M.S. DEGREE EXAMINATION

ORTHOPAEDICS

PAPER IV – RECENT ADVANCES IN ORTHOPAEDIC SURGERY + GENERAL SURGERY AS APPLIED TO ORTHOPAEDICS

Q.P. Code: 224008

Time: Three Hours **Maximum: 100 Marks**

I. Elaborate on: **(2 x 15 = 30)**

1. Etiopathology, clinical features, evaluation and management of Femoroacetabular impingement.

2. Recent advances in medical and surgical management of Osteoporotic vertebral and long bone fracture.

II. Write notes on: **(10 x 7 = 70)**

1. Recent advances in the concept of dynamization in locking plate fixation.

2. Vacuum Assisted closure therapy.

3. Gene Therapy in Fracture Healing.

4. Robotic unicondylar knee Replacement.

5. Implants to prevent paediatric femoral neck fractures management.

6. Reamer Irrigation Aspiration System.

7. WALANT in Orthopedics.

8. 4 Generations of Cementing Techniques.

9. Ceramic on ceramic Total Hip Replacement.

10. Skin Flaps in Orthopaedics.

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