

March 2010

[KW 210]

Sub. Code: 2238

**M.S. DEGREE EXAMINATION**

**Branch II – ORTHOPAEDIC SURGERY**

**Paper III – (for candidates admitted from 2004-05 to 2007-08)**

**Part II – Paper II – (for candidates admitted from 2008-09 onwards)**

**ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code : 222238*

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions**

**Draw suitable diagram wherever necessary**

**I. Essay questions :**

**(2 x 20 = 40)**

1. Describe osteoarticular changes in a haemophilic. How will you manage a 35 yr. old male with painful haemophilic arthritis of knee?
2. Define and classify coxavara. How will you evaluate and manage coxavara in a ten year old child?

**II. Write short notes on :**

**(10 x 6 = 60)**

1. Spondylo epiphyseal dysplasia.
2. Solitary plasmacytoma.
3. Tarsal tunnel syndrome.
4. Maffucci's syndrome.
5. Juvenile rheumatoid arthritis.
6. Torticollis.
7. Triple deformity of knee.
8. Ponseti technique of CTEV correction.
9. Compound palmar ganglion.
10. Vertebroplasty.

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September 2010

[KX 210]

Sub. Code: 2238

**M.S. DEGREE EXAMINATION**

**Branch II – Orthopaedic Surgery**

**ORTHOPAEDICS INCLUDING RECENT ADVANCES**

**Paper III – (for candidates admitted from 2004-05 to 2007-08) and  
Part II - Paper II – (for candidates admitted from 2008-09 onwards)**

*Q.P. Code : 222238*

**Time : Three hours**

**Maximum : 100 marks**

**Draw suitable diagram wherever necessary.**

**Answer ALL questions.**

**I. Essay questions :**

**(2 X 20 = 40)**

1. Describe etiopathology, clinical features and management of slipped capital femoral epiphysis in a 12 year old child.
2. Discuss pathology, clinical features and management of Osteosarcoma of proximal tibia.

**II. Write short notes on :**

**(10 X 6 = 60)**

1. Spina bifida occulta.
2. Wrist drop.
3. Discoid meniscus.
4. Gun stock deformity.
5. Brodies abscess.
6. De Quervain's disease.
7. Osgood Schlatter's disease.
8. Thoracic outlet syndrome.
9. High tibial osteotomy.
10. Synthetic Bone Graft Substitutes.

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May 2011

[KY 210]

Sub. Code: 2238

M.S. DEGREE EXAMINATION

BRANCH II – ORTHOPAEDIC SURGERY

ORTHOPAEDICS INCLUDING RECENT ADVANCES

*Q.P. Code : 222238*

Time : 3 hours  
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages Time Marks  
(Max.) (Max.) (Max.)

- |  |    |    |    |
|--|----|----|----|
| 1. How will you manage a 7 years old child with Recurrent CTEV. Describe various options.  | 11 | 35 | 15 |
| 2. How will you systematically analyse lower limb deformities and find out the apex of the deformity. Briefly describe the methods of corrections. | 11 | 35 | 15 |

II. Write notes on :

- |                                       |   |    |   |
|---------------------------------------|---|----|---|
| 1. Pyknodysostosis.                   | 4 | 10 | 7 |
| 2. SLAP lesion.                       | 4 | 10 | 7 |
| 3. Congenital bowing of Tibia.        | 4 | 10 | 7 |
| 4. Ulnar claw hand.                   | 4 | 10 | 7 |
| 5. Osteoid osteoma.                   | 4 | 10 | 7 |
| 6. Bennett's fracture dislocation.    | 4 | 10 | 7 |
| 7. Rotating platform knee prosthesis. | 4 | 10 | 7 |
| 8. Hyper Abduction Syndrome.          | 4 | 10 | 7 |
| 9. Varus derotation osteotomy.        | 4 | 10 | 7 |
| 10. Ceramics in orthopaedics.         | 4 | 10 | 7 |

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October 2011

[KZ 210]

Sub. Code: 2238

**M.S. DEGREE EXAMINATION**  
**BRANCH II – ORTHOPAEDIC SURGERY**  
**ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code : 222238*

**Time : 3 hours**  
**(180 Min)**

**Maximum : 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on :**

**Pages**    **Time**    **Marks**  
**(Max.)**    **(Max.)**    **(Max.)**

- |   |    |    |    |
|---|----|----|----|
| 1. Discuss the aetiopathogenesis. Clinical features, types of developmental dysplasia of hip (DDH). Discuss the management in regard with various age group and with a note on recent advances. | 11 | 35 | 15 |
| 2. Discuss the various causes of secondary O.A of hip joint. Describe in detail the surgical management of the same in a 30 year old.   | 11 | 35 | 15 |

**II. Write notes on :**

- |   |   |    |   |
|---|---|----|---|
| 1. Cryotherapy.   | 4 | 10 | 7 |
| 2. Rotating platform knee Prosthesis.                   | 4 | 10 | 7 |
| 3. Birmingham hip surface Replacement.                  | 4 | 10 | 7 |
| 4. Sir John Charnley and his Concepts.                  | 4 | 10 | 7 |
| 5. Staging of Malignant bone tumours – Recent advances. | 4 | 10 | 7 |
| 6. Ceramics in Orthopaedics.                            | 4 | 10 | 7 |
| 7. High Tibial Osteotomy and its current role.          | 4 | 10 | 7 |
| 8. Rotator Cuff Arthropathy.                            | 4 | 10 | 7 |
| 9. Distraction Osteogenesis.                            | 4 | 10 | 7 |
| 10. Triple Deformity of Knee.                           | 4 | 10 | 7 |

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APRIL 2012

[LA 210]

Sub. Code: 2238

M.S. DEGREE EXAMINATION  
BRANCH II – ORTHOPAEDIC SURGERY

ORTHOPAEDICS INCLUDING RECENT ADVANCES

*Q.P. Code : 222238*

Time : 3 hours  
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

I. Elaborate on :

Pages Time Marks  
(Max.) (Max.) (Max.)

- |   |    |    |    |
|---|----|----|----|
| 1. Classification diagnosis and management of avascular necrosis of hip.      | 16 | 35 | 15 |
| 2. Discuss the various aetiologies and modalities of treatment of Genu Varum. | 16 | 35 | 15 |

II. Write notes on :

- |   |   |    |   |
|---|---|----|---|
| 1. Diagnosis and treatment methods in Osteoporosis.                     | 4 | 10 | 7 |
| 2. Etiology and management of Recurrent dislocation of patella.         | 4 | 10 | 7 |
| 3. Management of Osteosarcoma of distal femur.                          | 4 | 10 | 7 |
| 4. Write notes on Flurosis.   | 4 | 10 | 7 |
| 5. Mention the types and treatment of Femoro acetabular impingement.    | 4 | 10 | 7 |
| 6. Head at risk signs in Perthes disease.                               | 4 | 10 | 7 |
| 7. Diagnosis and management of Carpel tunnel syndrome.                  | 4 | 10 | 7 |
| 8. Elaborate on Posterior lumbar interbody fusion.                      | 4 | 10 | 7 |
| 9. Management of neglected club foot in 8 year old child.               | 4 | 10 | 7 |
| 10. Write notes on Complex pain syndrome II ( Pseudeck osteodystrophy). | 4 | 10 | 7 |

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[LC 210]

APRIL 2013

Sub. Code: 2238

**M.S. DEGREE EXAMINATION**  
**BRANCH II – ORTHOPAEDIC SURGERY**  
**ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code : 222238*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. What are the types of Osteomyelitis ? Clinical features, investigation and treatment for chronic Non Specific Hematogenous Osteomyelitis.
2. Etiopathology, clinical features and management of Recurrent anterior Dislocation of shoulder.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Chondro Calcinosis
2. Electro physiological studies of peripheral nerve
3. Rupture Tendo Achilles.
4. Median Nerve Palsy.
5. Osteopetrosis (Marble Bone Disease)
6. Stabilising Operations of foot.
7. Knee Flexion Contracture in Polio.
8. Arthrodesis of Hip.
9. Reflex Sympathetic Osteodystrophy.
10. Kienbock's Disease.

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[LD 210]

OCTOBER 2013

Sub. Code: 2238

**M.S. DEGREE EXAMINATION**  
**BRANCH II – ORTHOPAEDIC SURGERY**  
**ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code : 222238*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL questions in the same order.**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe the classification and the radiological diagnosis of bone tumours.  
How will you treat a case of giant cell tumour of the distal radius in a 30 year old lady?
2. Describe the pathological anatomy of congenital talipes equinovarus.  
Discuss the management of a case of neglected congenital talipes equinovarus in a 6 year old boy.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Osteomalacia.
2. Developmental Coxa vara.
3. Loose bodies in knee.
4. Tarsal tunnel syndrome.
5. Shoulder arthrodesis.
6. Compound palmar ganglion.
7. Osteomyelitis in HIV disease.
8. Atypical presentations of spinal tuberculosis.
9. Hindquarter amputation.
10. Biological agents for the treatment of rheumatoid arthritis.

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**(LE 210)**

**APRIL 2014**

**Sub. Code:2238**

**M.S. DEGREE EXAMINATION**  
**BRANCH II – ORTHOPAEDIC SURGERY**  
**ORTHOPAEDICS INCLUDING RECENT ADVANCES**  
*Q.P.Code: 222238*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X15=30)**

1. Discuss in detail on the management of fracture shaft of humerus with radial nerve injury.
2. Describe the clinical assessment and management of a malunited supra condylar fracture with cubitus varus deformity in a 10 year old boy.

**II. Write notes on:**

**(10X7=70)**

1. Avascular necrosis femoral head stage IIa management.
2. TLIF.
3. Dome osteotomy.
4. Radiological features of rickets.
5. Pseudoarthrosis tibia.
6. Surgical precautions in HIV.
7. Tendon transfer for radial nerve palsy.
8. Congenital coxa vara.
9. Clinical diagnosis of cauda equina.
10. Osteoid osteoma – recent trend in management.

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(LF 210)

OCTOBER 2014

Sub. Code:2238

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER III - ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P.Code: 222238*

**Time: Three Hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Classify Coxa vara and discuss the current trends in management of Slipped capital femoral epiphysis.
2. Describe the staging and classification of Tuberculosis of Hip and write a note on its management.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Diagnosis and treatment methods in Osteoporosis.
2. Clinical examination and investigations in scoliosis.
3. Flat foot.
4. Blount's disease.
5. Neuropathic joint.
6. Examination and investigation of osteo sarcoma and add a note on the types of osteosarcoma.
7. Kienbock's disease.
8. Osteogenesis imperfecta.
9. Crystal deposition disorder.
10. Etiology and classification of Avascular necrosis of femoral head.

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[LG 210]

APRIL 2015

Sub. Code: 2238

**M.S. DEGREE EXAMINATION**  
**BRANCH II – ORTHOPAEDIC SURGERY**  
**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code : 222238*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL questions**

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

1. Evaluation of a painful limp in a 8 year old boy and discuss the management of Perthes disease.
2. Evaluation of Poly arthritis and discuss the management of Rheumatoid arthritis.

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

1. Osteochondritis dessicans.
2. Neonatal screening of Dysplastic hip.
3. Principles of management of Tuberculous paraplegia.
4. Pseudo paralysis in children.
5. Osteomalacia.
6. Classification of spondylolisthesis and add a note on management.
7. Ponseti method.
8. Madelung deformity.
9. Gout.
10. Metatarsalgia.

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**M.S. DEGREE EXAMINATION**  
**BRANCH II – ORTHOPAEDIC SURGERY**  
**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code : 222238*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL questions**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. What are the orthopaedic emergencies in a non traumatised orthopaedic patient?  
Describe the aetipathogenesis diagnosis and management of septic arthritis in a six yrs old child.
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?

**II. Write notes on:**

**(10 x 7 = 70)**

1. “Head at risk signs” in Perthes disease.
2. Spina ventosa.
3. Cervical rib.
4. Lambrinudi arthrodesis.
5. Melorheostosis.
6. Reflex sympathetic dystrophy.
7. Taylor’s brace.
8. Ollier’s disease.
9. PTB prosthesis.
10. Radio frequency ablation in orthopaedics.

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(LI 210)

APRIL 2016

Sub. Code:2238

**M.S. DEGREE EXAMINATION**  
**BRANCH II – ORTHOPAEDIC SURGERY**  
**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P.Code: 222238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe the diagnosis evaluation and management of Dysplastic hip.
2. Describe the various etiology and management of genu varum.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Recurrent dislocation of patella.
2. Synovial chondromatosis.
3. Femoro acetabular impingement.
4. Flurosis.
5. Congenital torticollis.
6. Rheumatoid hand.
7. Management of ulnar claw hand.
8. Retro calcaneal bursitis.
9. Hallux valgus.
10. Radio ulnar synostosis.

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(LJ 210)

OCTOBER 2016

Sub. Code:2238

**M.S. DEGREE EXAMINATION**  
**BRANCH II – ORTHOPAEDIC SURGERY**  
**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P.Code: 222238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Tuberculosis of hip joint – Clinical features, classification, investigations, treatment.
2. Congenital Talipes Equinovarus (CTEV) - Clubfoot – Etiology, pathoanatomy, clinical features, management.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Rickets.
2. Neurogenic v/s Vascular claudication.
3. Distraction histiogenesis.
4. Nerve entrapment syndrome.
5. Gait cycle.
6. Heterotopic ossification.
7. Osgood-Schlatter's disease.
8. Gout.
9. Kienbock's disease.
10. Osteoporosis.

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(LK 210)

MAY 2017

Sub. Code:2238

**M.S. DEGREE EXAMINATION**  
**BRANCH II – ORTHOPAEDIC SURGERY**  
**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**  
*Q.P.Code: 22238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe the etiopathogenesis and classification of Perthes disease.  
How will you manage a case of 5yrs old child with some “Head at risk signs”.
2. Aetiopathogenesis diagnosis of TB infection of hip joint.  
What are the clinical types described? How will you manage a case of wandering acetabular type of hip joint?

**II. Write notes on:**

**(10 x 7 = 70)**

1. Renal rickets.
2. Blount’s disease.
3. Late onset paraplegia in caries spine.
4. Triple arthrodesis.
5. Carpel tunnel syndrome.
6. Ponseti method.
7. Principles of amputation surgery.
8. Management of acute OM in a child.
9. Disease modifying agents in Rheumatoid arthritis.
10. Computer navigated TKR.

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(LL 210)

OCTOBER 2017

Sub. Code:2238

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P.Code: 22238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss Anatomy of rotator cuff. What is rotator cuff disease? Discuss its pathogenesis and management.
2. Define Legg Calve Perthes disease. Describe its clinical features, diagnosis, management.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Congenital Pseudoarthrosis of tibia.
2. Radial club hand.
3. Wrist drop.
4. Myositis ossificans.
5. Automatic bladder vs Neurogenic bladder.
6. Compound palmer ganglion.
7. Familial Hypophosphatemic Rickets.
8. Bone bank.
9. Cold abscess.
10. Pre ganglionic vs Post ganglionic nerve lesions.

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[LM 210]

MAY 2018

Sub. Code: 2238

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P.Code: 222238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Classify osteomyelitis. Describe clinical features, investigations, management of acute osteomyelitis of upper end of tibia in a 10 year old child.
2. Define neuropathic joint. List the causes of neuropathic joint. Mention in brief the clinical features, diagnosis and treatment of neuropathic joint.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Hand deformities in rheumatoid arthritis.
2. Radiological signs in rickets and scurvy.
3. Bone grafts along with their properties.
4. Pigmented villonodular synovitis.
5. Botulinum neurotoxin in Orthopaedic surgery.
6. Congenital dislocation of knee.
7. Orthopaedic manifestation of neurofibromatosis.
8. Extended trochanteric osteotomy.
9. Giant cell tumour and its recent chemotherapy regime.
10. Transient migratory osteoporosis.

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[LN 210]

OCTOBER 2018

Sub. Code: 2238

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code: 222238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe the normal Gait cycle. What are the abnormal gait patterns seen in orthopaedic practice?  
How will you manage a patient with “Q” gait?
2. Describe the aetiology, clinical features and management of TB KNEE.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Chondroblastoma.
2. Radio ulnar Synostosis.
3. Recurrent dislocation of patella.
4. Therapeutic embolisation.
5. Tarsal coalition.
6. Pigmented villonodular synovitis.
7. Meralgia parasthetica.
8. Knee ankle foot orthosis (KAFO).
9. Accessory navicular.
10. Radiofrequency ablation in orthopaedics.

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**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code: 222238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Classify skeletal Dysplasia. Discuss about Osteopetrosis.
2. Discuss about the types of and causes of Osteoporosis. Write about clinical features, investigations and management of it.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Disease modifying antirheumatic drugs.
2. Sero negative spondylarthropathy.
3. Clinical tests for evaluating Sacro-Iliac joint.
4. Ewing's Sarcoma.
5. Loose bodies in knee joint.
6. Tarsal tunnel syndrome.
7. Meralgia paraesthetica.
8. Brodies's abscess.
9. Madura Mycosis.
10. Indications for surgery in T.B. of thoracic spine with complications.

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**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code: 222238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Bone tumours - Classification, types and principles of biopsy. Management of osteosarcoma distal femur in a young adult.
2. Bone grafting - Properties, indications, types, techniques.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Ponseti's technique.
2. SLAP Lesions.
3. Femoro acetabular impingement.
4. Myositis Ossificans.
5. De Quervain's disease.
6. Crouch gait.
7. Management of infected non-union tibia.
8. Osteogenesis imperfecta.
9. Nuclear scan studies in orthopaedics.
10. Evolution of bone cementing techniques.

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[LQ 210]

AUGUST 2020  
(MAY 2020 SESSION)

Sub. Code: 2238

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code: 222238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Define protrusio acetabuli. Discuss its etiology, classification, clinical features and management.
2. What is osteochondritis dessicans of the femoral condyles? Discuss classification, clinical diagnosis and management.

**II. Write notes on:**

**(10 x 7 = 70)**

1. SCFE
2. Paget's disease
3. Custom prosthesis
4. Keinbock's disease
5. Osteoid osteoma
6. Spina ventosa
7. EMG in nerve injuries
8. Triple deformity
9. Discoid meniscus
10. Ceramics in orthopaedics

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[LS 210]

NOVEMBER 2020  
(OCTOBER 2020 SESSION)

Sub. Code: 2238

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code: 222238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the etiopathogenesis of tuberculosis of spine and write current trends in management of TB Spine.
2. Classify coxa vara and discuss the current trends in management of slipped capital femoral epiphysis.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Multiple myeloma
2. Torticollis
3. Median nerve injury
4. Radiological features of rickets
5. Gout
6. Triple arthrodesis of foot
7. Hallus valgus
8. Periarthritis shoulder
9. PTB prosthesis
10. Head at risk signs in Perthe's disease

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[MS 0721]

JULY 2021  
(MAY 2021 SESSION)

Sub. Code: 2238

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code: 222238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Osteonecrosis of femoral head – etio pathogenesis staging and treatment modalities.
2. Congenital pseudo arthrosis of tibia – etio pathology classification and management.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Radial club hand.
2. Haemophilic arthropathy.
3. Papineau technique.
4. Crystal deposition disorder.
5. Erlen Meyer flask deformity.
6. Hypervitaminosis.
7. Paget's disease.
8. Pseudo hypo parathyroidism.
9. Mucopolysaccharidoses.
10. Bone scintigraphy.

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

**[MD 1121]**

NOVEMBER 2021  
(OCTOBER 2021 SESSION)

**Sub. Code: 2238**

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code: 222238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Describe the Etiopathogenesis, Clinical features investigations treatment of Slipped Capital Epiphysis.
2. Pathology of Pott's spine. Clinical features, radiological features, differential diagnosis, Middle path regimen in the treatment of spinal TB.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Radiological features of DDH.
2. Charcot Joints.
3. Synovial Chondromatosis.
4. Pellgrini – Stieda syndrome.
5. Prof. TKS classification of TB hip.
6. Cleido Cranial Dysostosis.
7. Recurrent dislocation of Patella.
8. Hammer Toe.
9. Elbow Stiffness- Management.
10. Chondroblastoma.

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

**[MS 0522]**

**MAY 2022**

**Sub. Code: 2238**

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code: 222238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Discuss the etiopathology, clinical features and management of recurrent anterior Dislocation of shoulder.
2. Discuss the clinical features, pathology, radiological features and management of Giant cell tumour in proximal tibia in a 40 years female.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Stages of tubercular arthritis of Hip and its clinical features.
2. Diagnosis and treatment of Osteoporosis.
3. Thoracic outlet syndrome.
4. Distraction Osteogenesis.
5. Gait cycle.
6. Automatic bladder vs Neurogenic bladder.
7. Hand deformities in rheumatoid arthritis.
8. Tribology.
9. Gene therapy in orthopaedics.
10. Robotic surgery in Orthopaedics.

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

**[MS 1022]**

**OCTOBER 2022**

**Sub. Code: 2238**

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY**

**PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

***Q.P. Code: 222238***

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. Classify skeletal Dysplasia. Discuss about Osteopetrosis.
2. Management of Congenital dislocation of Hip in Various age groups.

**II. Write notes on:**

**(10 x 7 = 70)**

1. High Tibial Osteotomy.
2. Genu valgum.
3. Spondylo arthropathy.
4. Balloon Kyphoplasty.
5. Ponseti technique for CTEV.
6. Flat foot.
7. Quadriceps Plasty.
8. Rheumatoid arthritis of knee.
9. PRPP (Platelet Rich Plasma Precipitate).
10. Bone Graft Substitutes.

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

**[MS 0723]**

**JULY 2023  
(MAY 2023 EXAM SESSION)**

**Sub. Code: 2238**

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY  
PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code: 222238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. A 30-year-old male labourer had radiating pain in the right lower limb and had a spinal surgery one year back. However, he had no pain relief following that surgery. Now Patient comes to you with a long midline scar of previous surgery. What will be your management plan for this patient pertaining to his history, clinical examination investigation and the most preferred treatment for him?
2. Describe Gait Cycle - Abnormal Gait patterns in Orthopaedics. Enumerate the causes for Trendelenburg Gait and Management.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Dynamic abduction brace for Perthe's hip.
2. Sacral Chordoma.
3. Slump test.
4. Cryptococcosis of spine.
5. What are intermittent pneumatic compression devices, how are they used?
6. Intersection Syndrome.
7. Kerboul Method.
8. Observation HIP.
9. Classification of Chondromalacia Patella.
10. Siderotic synovitis.

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

[MS 1223]

**DECEMBER 2023  
(OCTOBER 2023 EXAM SESSION)**

**Sub. Code: 2238**

**M.S. DEGREE EXAMINATION**

**BRANCH II – ORTHOPAEDIC SURGERY  
PAPER III – ORTHOPAEDICS INCLUDING RECENT ADVANCES**

*Q.P. Code: 222238*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 15 = 30)**

1. A 30 years-old male comes with spinal tuberculosis at D9-D10 Region with neurological involvement.
  - a) Describe the Clinical Features, Examination Findings, Definitive Diagnostic Procedures and Management of this patient.
  - b) What are the drugs you will try and for how long?
  - c) What are the indications of Operative Management?
  - d) What are the issues of Operative Management at this level?
2. Name the Osteotomies around hip. Mention the prerequisite of any osteotomy with diagrams explain any one osteotomy on the pelvic-side done with a hinge? Mark exactly on the diagram, the hinge of the osteotomy.

**II. Write notes on:**

**(10 x 7 = 70)**

1. Galeazzi Sign.
2. Pre-slip.
3. Kohler's line.
4. Blair's fusion.
5. Draw the types of Femoro-acetabular impingement.
6. Squinting patella.
7. Jobe test.
8. Heberden nodule.
9. Floor Reaction Orthosis.
10. Sever's disease.

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