

**SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

*(A DEEMED TO BE UNIVERSITY)*

**Post Graduate Degree Examination - Apr/May 2019**

**Time : 3 Hrs**

**Max Marks : 100**

**M.S ORTHOPAEDICS**

**Paper-I QP Code: P3181**

*Your answers should be specific to the questions asked.*

*Draw neat labeled diagrams wherever necessary.*

**LONG ESSAY**

**10 X 10 = 100**

1. Mention the Flexor muscles of the Forearm with their nerve supply. Describe the etiology and pathophysiology of Compartment syndrome of Forearm. [4+3+3]
2. Describe the biomechanics of Spine. Enumerate the Atypical thoracic vertebra and its clinical importance. [5+5]
3. Describe the types of muscle contraction with examples. How do you distinguish nerve root disease from peripheral entrapment with the help of Electrodiagnostic studies? [5+5]
4. What is Compartment syndrome? Differentiate acute and chronic Compartment syndrome. Discuss the indications, technique and complications of single incision Fasciotomy of Leg. [2+2+2+2+2]
5. Describe the pathophysiology of Ewing's sarcoma. Discuss the Chemotherapy regimens used in Ewing's sarcoma with dosages. [4+6]
6. Classify Traumatic Dislocation of Shoulder. Describe the following with respect to Shoulder: a. Duga's test b. Apprehension test c. Callaway test. [4+2+2+2]
7. Describe the following Clinical tests: a. Anterior drawer test b. Valgus stress test c. McMurray's test d. Pivot shift test e. Lachman's test. [2+2+2+2+2]
8. Mention the ingredients of Fibrin Glue. Describe the technique of Dural repair using Fibrin Glue. [5+5]
9. Enumerate the metastatic lesions of Bone. What are the mechanisms and types of metastasis to Bone? [4+3+3]
10. Describe the principles of Proximal Humerus Inter Locking System(PHILOS) plating. Discuss its indications, contra indications and complications. [4+2+2+2]

**SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
**(A DEEMED TO BE UNIVERSITY)**

**Post Graduate Degree Examination - Apr/May 2019**

**Time : 3 Hrs**

**Max Marks : 100**

**M.S ORTHOPAEDICS**

**Paper-II      QP Code: P3182**

*Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.*

**LONG ESSAY**

**10 X 10 = 100**

1. Describe the clinical features, classification and management of Proximal Humerus fracture ? [2+4+4]
2. What is Side-swipe injuries ? Describe the management and complications of the side swipe injury ? [4+6]
3. What is Perilunate fracture dislocation. Classify it. How will you manage an acute case. Discuss the complications in chronic perilunate fracture dislocation. [1+2+3+4]
4. What are the complications associated with Acetabular fractures? How will you manage a patient with Sciatic Nerve palsy? [4+6]
5. Classify the fracture Neck of Femur by Garden's method? Describe the different modalities of management of Fracture Neck of Femur in an young adult? Mention FOUR Complications? (4+4+2).
6. Describe the clinical features and management of Type V Schatzkar's Tibial plateau fractures? Mention FOUR important complications? (2+4+4)
7. Describe Lauge-Hansen classification of Ankle fractures? Discuss the various modalities of management? Mention FOUR complications? (4+4+2).
8. Describe the level of injury, clinical presentation, prognosis of various Incomplete Spinal cord injury syndromes. [5+5]
9. Classify fractures around the Elbow in a six-year-old child. Discuss Myositis Ossificans: clinical diagnosis and management. [4+2+4]
10. Describe the clinical features of Slipped Capital Femoral Epiphysis. Discuss TWO radiological signs and FOUR complications of chronic Slipped Capital Femoral Epiphysis. [4+2+4]

**SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

*(A DEEMED TO BE UNIVERSITY)*

**Post Graduate Degree Examination - Apr/May 2019**

**Time : 3 Hrs**

**Max Marks : 100**

**M.S ORTHOPAEDICS**

**Paper-III QP Code: P3183**

*Your answers should be specific to the questions asked.*

*Draw neat labeled diagrams wherever necessary.*

**LONG ESSAY**

**10 X 10 = 100**

1. Describe a) Salter technique of osteotomy                      b) Triple Innominate osteotomy performed in Developmental Dysplasia of the hip. [5+5]
2. Describe etiopathogenesis, clinical features, investigations and treatment of Scurvy. [2+2+3+3]
3. Describe the etiology, clinical features, staging and management of Legg-Calve-Perthes disease. [2+2+2+4]
4. Describe anatomical classification of Chronic Osteomyelitis. Discuss the principles of management based on this classification. How will you fill the dead space after excision of infected tissue? [4+3+3]
5. Describe the etio-pathogenesis, clinical features and American College of Rheumatology[ACR]/European League Against Rheumatism[EULAR] diagnostic criteria of Rheumatoid Arthritis. [3+3+4]
6. Briefly describe the etiology, clinical features, investigations, histopathology and treatment of fibrous dysplasia. [2+2+2+2+2]
7. Define Amputation. Describe about Krukenberg amputation? [2+8]
8. Describe indications, contraindications and complications of exoskeletal prosthesis. [4+4+2]
9. What is difference between Pre-ganglionic and Post-ganglionic injuries of Brachial plexus? Describe Neurotization and Neurolysis? [4+3+3]
10. Describe the posterior approach to lumbar spine L1 to L5. Mention its advantages and disadvantages. [6+2+2]

**SRI DEVRAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**  
**(A DEEMED TO BE UNIVERSITY)**

**Post Graduate Degree Examination - Apr/May 2019**

Time : 3 Hrs

Max Marks : 100

**M.S ORTHOPAEDICS**  
**Paper-IV      QP Code: P3184**

*Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.*

**LONG ESSAY**

**10 X 10 = 100**

1. Define Femoral anteversion. How do you detect it clinically? Discuss the role of anteversion in orthopaedics diagnosis & management ( 2 + 2 + 6 )
2. Describe the Molecular tests used in multidrug tuberculosis. Discuss the Dosage & important side effects of second line drugs in osteoarticular tuberculosis . what is the Role of PET to assess healing in osteoarticular tuberculosis. (3+4+3)
3. What are Bioabsorbable Implants. Mention the uses and discuss the advantages and disadvantages of Bioabsorbable Implants. (2+2+6)
4. Describe the development of vertebral column. Discuss the pathogenesis and management of potts paraplegia. Discuss the treatment of resistant cases? (2+2+3+3)
5. What are closed chain and open chain exercises and discuss Anterior Cruciate Ligament (ACL) rehabilitation protocol. (4+4+2)
6. What is Kienbock's disease? Write briefly its etiology, diagnosis, clinical staging and management.(2+2+2+2+2)
7. What is mallet toe? Discuss etiology, clinical features and treatment? (1+2+2+5)
8. Discuss the Role of templating in Total Hip Arthroplasty (THA). Outline the steps of templating in protrusion acetabuli & a laterised Hip with suitable diagrams. (5+5)
9. Discuss indication, contraindication and complications of Total Knee replacement. (3+3+4)
10. Describe the indications and contraindications of Total Wrist replacement? Discuss design and selection of Total Wrist components. (5+5)