

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

*(A DEEMED TO BE UNIVERSITY)*

**Post Graduate Degree Examination - November 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. Describe the anatomy of Brachial plexus. Describe the clinical features and management of Erb's palsy. [4+3+3]
2. Describe Anatomy of Intervertebral Disc. Enumerate different stages of Intervertebral disc prolapse and discuss it's management. [3+3+4]
3. Enumerate the ossification centres around Elbow . Differentiate between Endochondral and Membranous ossification. [5+5]
4. Enumerate the blood supply of Femoral head. Describe the Ficat & Arlet classification and management of stage III Avascular necrosis of Femoral head. [3+3+4]
5. Define Osteoporosis? Discuss the pathophysiology of Osteoporosis. Discuss the role of Teriparatide in Orthopaedics. [2+3+5]
6. Define Gangrene. Describe the aetiological classification & management of Gas Gangrene? [3+3+4]
7. Define Functional cast bracing? Discuss the indications and principles of applications of Patellar Tendon Bearing cast. [3+4+3]
8. Describe the etiopathogenesis, clinical features, differential diagnoses and management of Ankylosing spondylitis. [2+2+2+4]
9. Describe the properties of Bone graft. Enumerate the different types of Bone grafts, bone graft substitutes and their incorporation. [3+2+2+3]
10. Describe the role of ceramics in Total Hip Arthroplasty. Mention the various approaches for Total Hip Arthroplasty. Describe Harding approach to Hip. [3+2+5]

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**Paper- II      QP Code: P3182**

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**LONG ESSAY**

**10 X 10 = 100**

1. Classify Glenoid fractures? Discuss in detail the indications of surgical management and mention its complications? [4+3+3]
2. Describe the etiology, clinical features and management of Malunited Proximal Ulna with Anterior Dislocation of Radial head (Monteggia fracture)? (2+4+4)
3. Describe the clinical features, investigation and management of non union Scaphoid fracture. [2+4+4]
4. Describe the Management of Both Column fractures of Acetabulum? What is "SPUR" sign and its importance? [7+3]
5. Classify Distal end Femur fractures? Describe the various modalities of management of Intra articular fracture of Distal end Femur? [4+6]
6. What is Floating Knee? Discuss its management in a 25 year old male patient ? [4+6]
7. Describe the Sander's classification of Calcaneal fractures. Discuss the aims and methods of surgical management. [4+6]
8. Describe the mechanism of injury, pathophysiology of acute Cervical spine injury. Discuss the principles of management of acute Cervical spine injury with Quadriplegia. [5+5]
9. Describe the mechanism, clinical features and management of Extension type of Supracondylar fracture Humerus in children? [2+4+4]
10. Classify Epiphyseal injuries. Describe the treatment principles and complications of each type. [2+4+4]

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**Paper- III      QP Code: P3183**

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**LONG ESSAY**

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1. Describe Ponseti casting technique for correction of CTEV. Discuss the advantage of this technique over Kite's method. [6+4]
2. Describe Kleer Koper scoring system for Osteoporosis. Describe differential diagnoses of Osteoporosis. Discuss its pharmacological management. [2+3+5]
3. Describe the etiology, classification, clinical features and prognostic factors of Cerebral palsy. [2+2+2+4]
4. What are the diagnostic modalities used in a case of Chronic Osteomyelitis. Describe the role of bone scan in the diagnosis of Osteomyelitis. [5+5]
5. Discuss the Orthopedic manifestations of Systemic Lupus Erythematosus. Describe the management. [5+5]
6. Briefly describe the etiology, clinical features, investigations, histopathology and treatment of fibrosarcoma. [2+2+2+2+2]
7. What are the indications of amputation? Describe Pollicization? [5+5]
8. What is Syme's prosthesis? Describe the components of Syme's prosthesis. Give its advantages and disadvantages. [1+3+3+3]
9. Describe the anatomy of Ulnar nerve. Describe the clinical features and management of Low Ulnar nerve palsy. [5+2+3]
10. Describe the etiology, clinical features, differential diagnosis, investigations and management of Duchenne muscular dystrophy. [2+2+2+2+2]

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**Paper- IV      QP Code: P3184**

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**LONG ESSAY**

**10 X 10 = 100**

1. What is Combined Anteversion? Discuss its role in Total Hip arthroplasty. ( 2 +8 )
2. What is Strength-Duration Curve? Discuss its application in orthopaedics. (3+7)
3. Discuss the principles of Locking Compression Plating. Describe its role in Peri articular Fractures? (5 + 5)
4. Describe total disc replacement?(10)
5. Define Lateral epicondylitis? Describe its etio-pathogenesis. How do you manage an acute case of lateral epicondylitis in a 23years old badminton player? (2+3+5)
6. Enumerate various causes of Claw Hand. What is the pathogenesis of clawing? Discuss the principles of surgical correction. (3+2+5)
7. What is charcot arthropathy. Discuss its pathophysiology,clinical features, classification and treatment. (1+2+2+2+3)
8. What is Ankle arthrodesis? Mention Indication and discuss Total Ankle replacement after Ankle arthrodesis. (2+3+5)
9. What is Knee arthrodesis? Mention Indication and Discuss Total Knee replacement after Knee arthrodesis. (2+3+5)
10. Describe the indications and contraindications of Total Elbow replacement? Discuss various surgical approaches and techniques. (5+5)